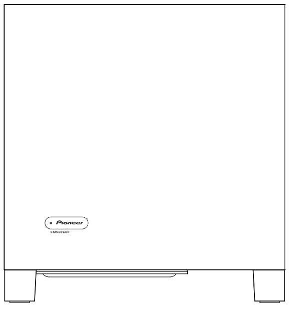
Service Manual


S-51W

ORDER NO.
RRV3971

POWERED SUBWOOFER

S-51W

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Type	Power Requirement	Remarks
S-51W	SYXJ8	AC 220 V to 240 V	
S-51W	AXJ5	AC 220 V to 240 V	
S-51W	DFXJ	AC 110 V to 127 V	
S-51W	DLPXJ	AC 220 V to 240 V	

For details, refer to "Important Check Points for good servicing".

PIONEER CORPORATION 4-1, Meguro 1-chome, Meguro-ku, Tokyo 153-8654, Japan
PIONEER ELECTRONICS (USA) INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A.
PIONEER EUROPE NV Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium
PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936

©PIONEER CORPORATION 2009

T-IZA JULY 2009 Printed in Japan

[Important Check Points for Good Servicing]

In this manual, procedures that must be performed during repairs are marked with the below symbol.
Please be sure to confirm and follow these procedures.

1. Product safety

Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

① Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

② Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification(addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

③ Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris.
Soldering should be finished with the proper quantity. (Refer to the example)

④ Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

⑤ Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

⑥ Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs.
In addition, be sure that there are no pinched wires, etc.

⑦ Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

⑧ There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages.
If you find a damaged power cord, please exchange it with a suitable one.

⑨ There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

⑩ Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries.
Please pay attention to your surroundings and repair safely.

2. Adjustments

To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification.
Adjustments should be performed in accordance with the procedures/instructions described in this manual.

3. Lubricants, Glues, and Replacement parts

Use grease and adhesives that are equal to the specified substance.
Make sure the proper amount is applied.

4. Cleaning

For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

5. Shipping mode and Shipping screws

To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

CONTENTS

1. SERVICE PRECAUTIONS ... 4
    1.1 NOTES ON SOLDERING ... 4
2. SPECIFICATIONS ... 5
    2.1 SPECIFICATIONS ... 5
    2.2 PANEL FACILITIES ... 6
3. BASIC ITEMS FOR SERVICE ... 7
    3.1 PCB LOCATIONS ... 7
4. BLOCK DIAGRAM ... 8
    4.1 OVERALL WIRING DIAGRAM ... 8
    4.2 BLOCK DIAGRAM ... 10
5. DIAGNOSIS ... 12
6. SERVICE MODE ... 12
7. DISASSEMBLY ... 12
8. EACH SETTING AND ADJUSTMENT ... 13
9. EXPLODED VIEWS AND PARTS LIST ... 14
    9.1 PACKING SECTION ... 14
    9.2 EXTERIOR SECTION ... 16
    9.3 CHASSIS SECTION ... 18
10. SCHEMATIC DIAGRAM ... 20
    10.1 JACK ASSY ... 20
    10.2 AMP ASSY ... 22
    10.3 REGULATOR ASSY ... 24
    10.4 SUB TRANS and LED ASSYS ... 26
11. PCB CONNECTION DIAGRAM ... 28
    11.1 JACK ASSY ... 28
    11.2 AMP ASSY ... 30
    11.3 SUB TRANS and LED ASSYS ... 32
    11.4 REGULATOR ASSY ... 34
12. PCB PARTS LIST ... 35

1. SERVICE PRECAUTIONS

1.1 NOTES ON SOLDERING

- For environmental protection, lead-free solder is used on the printed circuit boards mounted in this unit.
  Be sure to use lead-free solder and a soldering iron that can meet specifications for use with lead-free solders for repairs accompanied by reworking of soldering.

- Compared with conventional eutectic solders, lead-free solders have higher melting points, by approximately 40 ºC.
  Therefore, for lead-free soldering, the tip temperature of a soldering iron must be set to around 373 ºC in general, although the temperature depends on the heat capacity of the PC board on which reworking is required and the weight of the tip of the soldering iron.

Do NOT use a soldering iron whose tip temperature cannot be controlled.

Compared with eutectic solders, lead-free solders have higher bond strengths but slower wetting times and higher melting temperatures (hard to melt/easy to harden).

The following lead-free solders are available as service parts:
- Parts numbers of lead-free solder:
  GYP1006 1.0 in dia.
  GYP1007 0.6 in dia.
  GYP1008 0.3 in dia.

2. SPECIFICATIONS

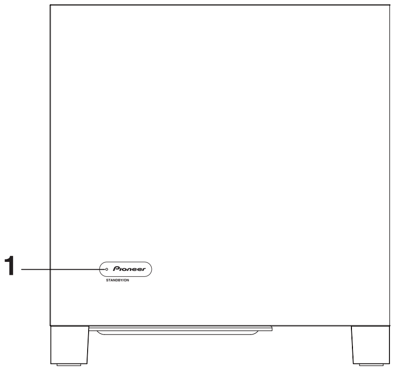
2.1 SPECIFICATIONS

Cabinet .... Bass-reflex, floor type
Speaker .... 20 cm cone type
Power Amplifier Continuous Power Output
(RMS) .... 150 W/6 Ω (100 Hz) (SYXJ8, DLPXJ)
125 W/6 Ω (100 Hz) (AXJ5)
130 W/6 Ω (100 Hz) (DFXJ)
Input (sensitivity at 100 Hz)
LINE LEVEL (RCA jack) .... 190 mV
Outline Dimension
.... 360 mm (W) x 382 mm (H) x 360 mm (D)
Weight (without package) 13.5kg
Power Requirements
.... 220 V to 240 V~, 50 Hz/60 Hz (SYXJ8, DLPXJ)
220 V to 240 V~, 50 Hz (AXJ5)
110 V to 127 V~, 60 Hz (DFXJ)
Power Consumption .... 130 W
Power consumption in standby .... 0.45 W less

Specifications and design subject to possible modification without notice, due to improvements.

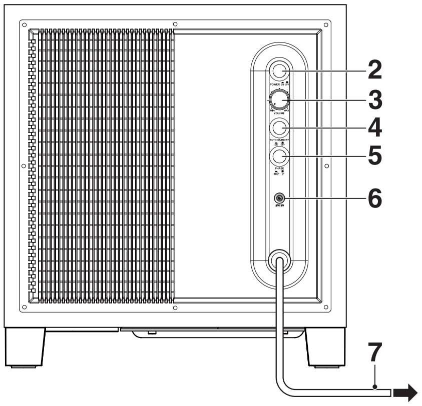
2.2 PANEL FACILITIES

FRONT PANEL

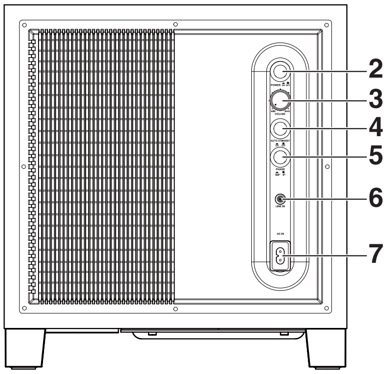


REAR PANEL

• For SYXJ8 and AXJ5 types



• For DFXJ and DLPXJ types



1 Power Indicator (STANDBY/ON)

Lights blue when the power has been switched ON.

NOTE:

- The power is still supplied even when the power indicator is off. The power plug (interrupter) must be unplugged in order to completely cut the power supply. When not using this product for long periods of time, such as when traveling, unplug the power cord (interrupter) from the power outlet for safety purposes. Failure to do so could lead to fire.

2 Power switch (POWER)

Switches the subwoofer between ON and OFF.

3 Volume knob (VOLUME)

Sets the subwoofer volume.

- Turn the knob slowly from the MIN position.
- With this unit, the bass level can be independently set, so do not turn up the bass on the AV amplifier.

4 Auto Standby switch (AUTO STANDBY)

Turning the Auto Standby function on or off.

NOTE:

- The default setting for Auto Standby switch is ON.

Auto standby function

The power is automatically set to the standby mode (off) if there is no input signal for approximately 12 minutes (the power indicator turns red). The power automatically turns on when a signal is input. The auto standby function is deactivated when Auto Standby switch is set to OFF.

NOTE:

- There may be cases where a connected component outputs noise or some other non-audio signal which causes this system to automatically power on when in Auto Standby mode.
  If this happens, switch off the Auto Standby mode and switch the system on/off manually.

5 Phase switch (PHASE)

When set to 180°, the output phase becomes the reverse of the input signal, and when set to 0°, it is in the same phase as the input signal.

- Normally, the switch is set to 0°.
  But when the sound connection between the subwoofer and the left and right speakers sounds unnatural, try switching to 180° and set the switch in the position where the sound is natural.

6 Line Level Input terminal (LINE IN)

Connect to the **SUBWOOFER PREOUT** terminal of an amplifier or receiver, with the specially provided RCA plug cord.

7 AC CORD (SYXJ8, AXJ5)

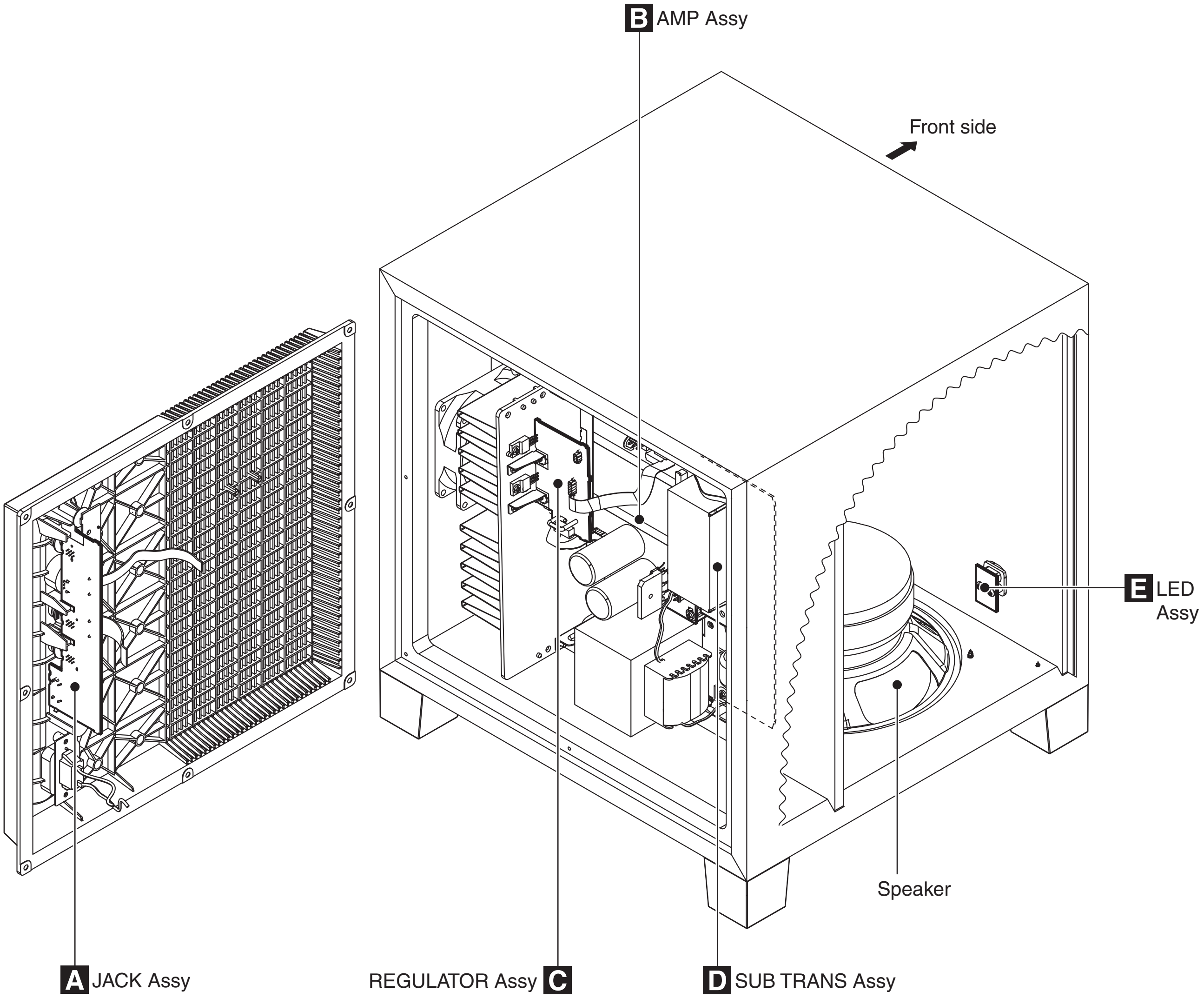
Connect the AC cord to a AC socket (in the room).

7 AC IN (DFXJ, DLPXJ)

- Connect the power cord to the powered subwoofer unit’s AC IN.
- Connect the power cord to a AC socket.

3. BASIC ITEMS FOR SERVICE

3.1 PCB LOCATIONS



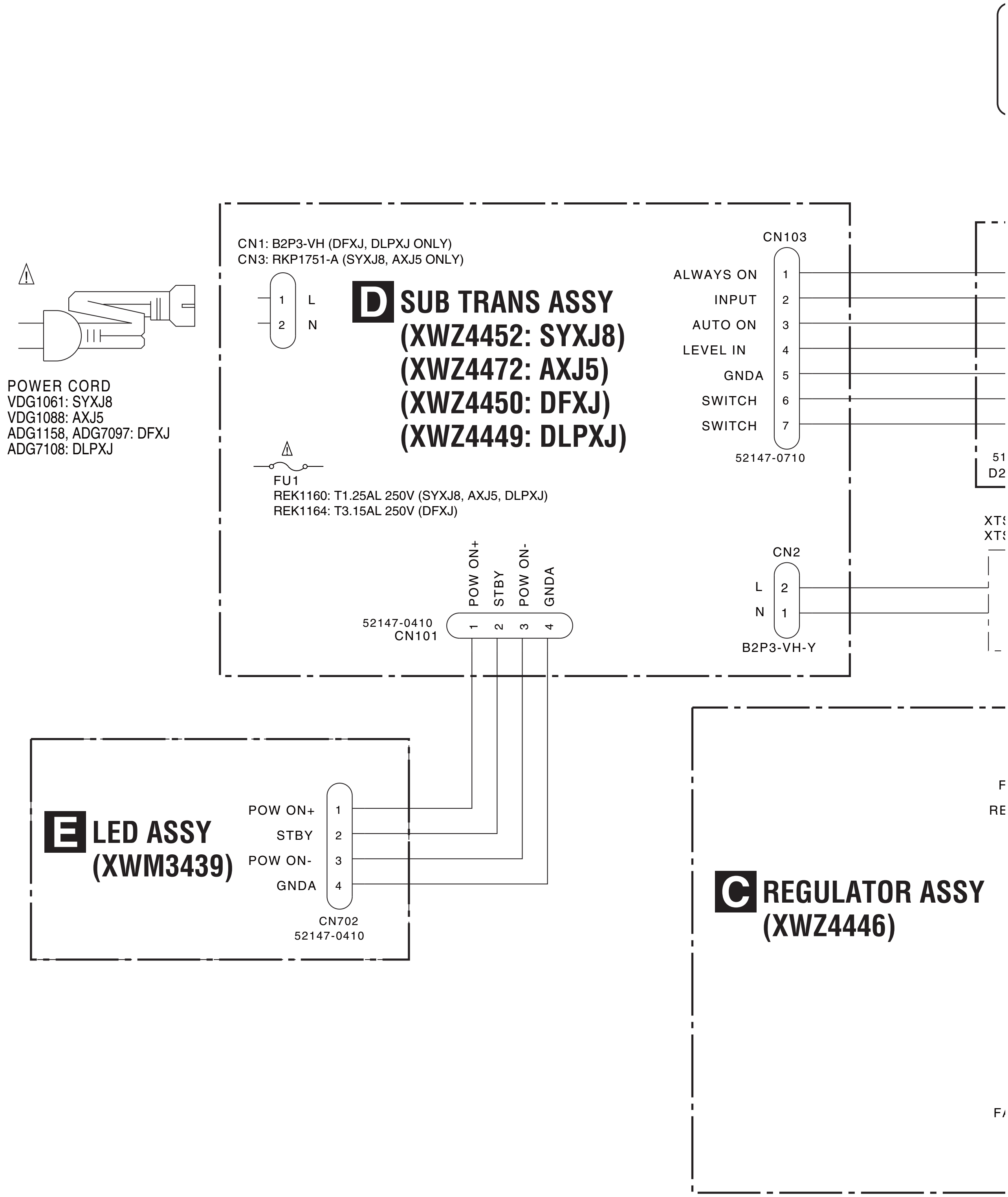
NOTES: ● *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
● *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*

LIST OF ASSEMBLIES

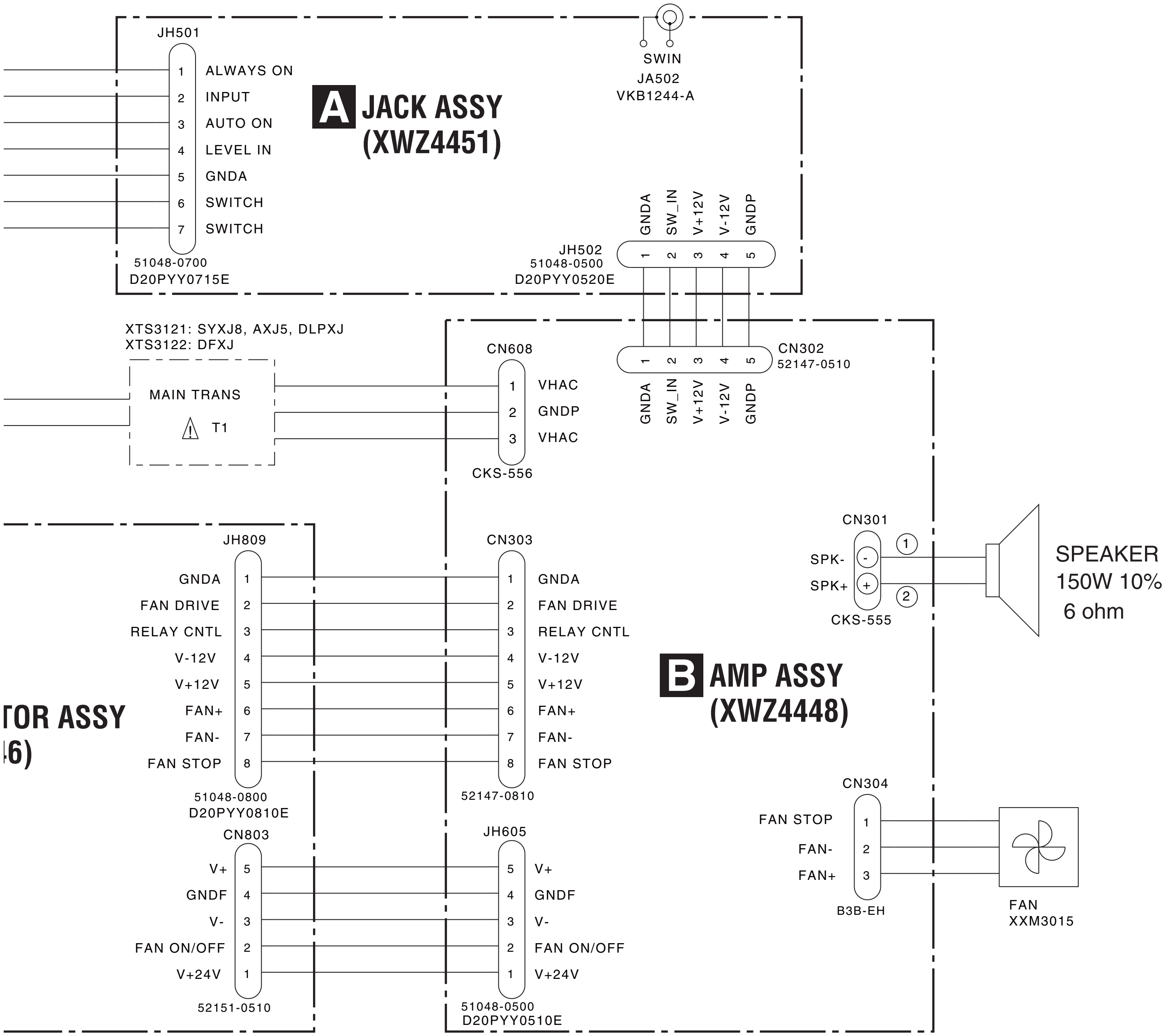
Mark	Symbol and Description	S-51W /SYXJ8	S-51W /AXJ5	S-51W /DFXJ	S-51W /DLPXJ
	1..POWER AMP ASSY	XWM3516	XWM3528	XWM3519	XWM3518
	2..REGULATOR ASSY	XWZ4446	XWZ4446	XWZ4446	XWZ4446
	2..AMP ASSY	XWZ4448	XWZ4448	XWZ4448	XWZ4448
	2..JACK ASSY	XWZ4451	XWZ4451	XWZ4451	XWZ4451
	2..SUB TRANS ASSY	XWZ4452	XWZ4472	XWZ4450	XWZ4449
	1..LED ASSY	XWM3439	XWM3439	XWM3439	XWM3439

4. BLOCK DIAGRAM

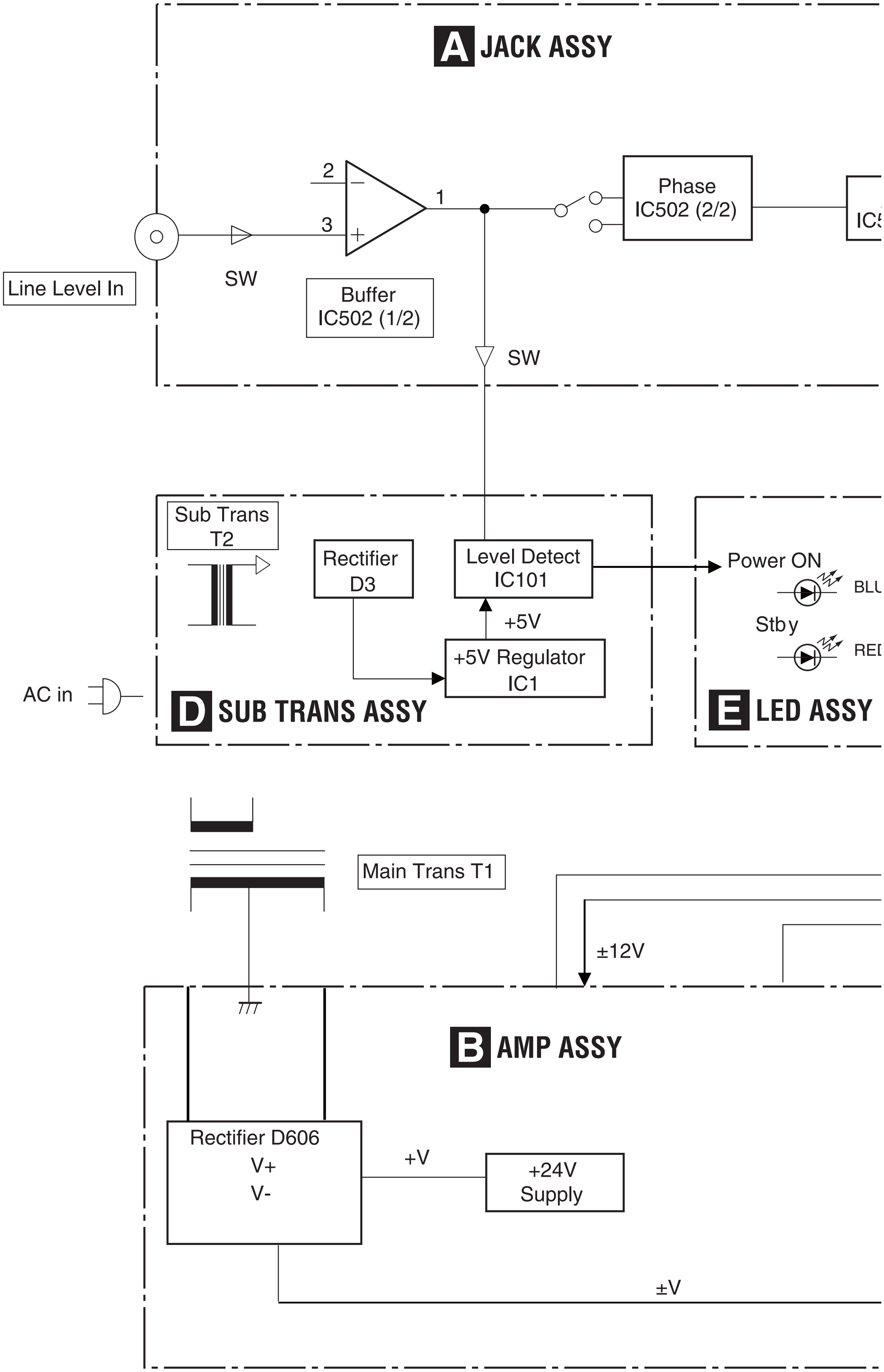
4.1 OVERALL WIRING DIAGRAM

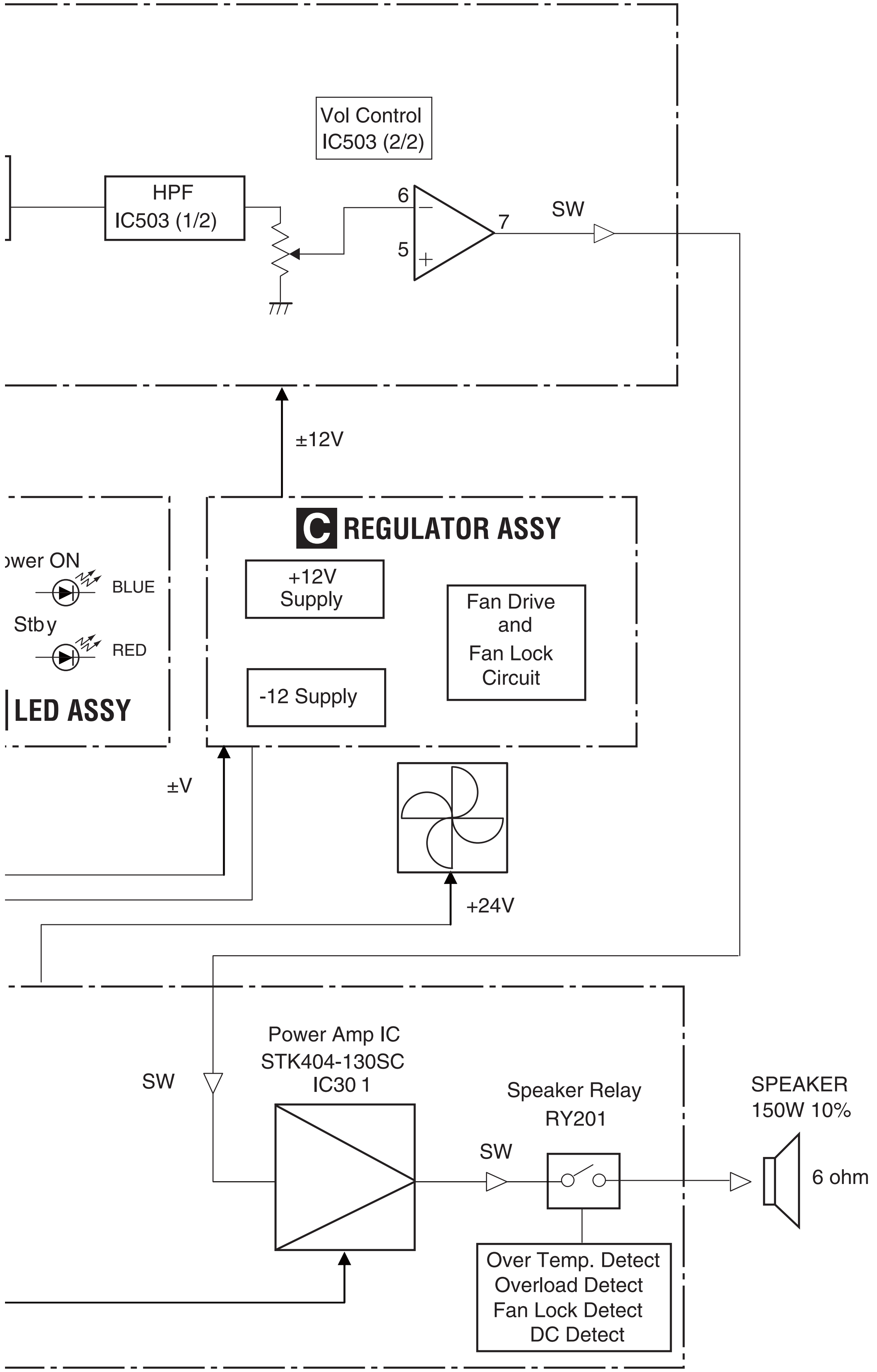


- When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".
- The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- ⬭ : The power supply is shown with the marked box.



4.2 BLOCK DIAGRAM




Vol Control
IC503 (2/2)
HPF
IC503 (1/2)
6
5
7
SW
±12V
REGULATOR ASSY
C
+12V
Supply
-12 Supply
Fan Drive
and
Fan Lock
Circuit
ower ON
BLUE
Stby
RED
LED ASSY
±V
+24V
SW
Power Amp IC
STK404-130SC
IC30 1
Speaker Relay
RY201
SW
SPEAKER
150W 10%
6 ohm
Over Temp. Detect
Overload Detect
Fan Lock Detect
DC Detect

5. DIAGNOSIS

There is no information to be shown in this chapter.

6. SERVICE MODE

There is no information to be shown in this chapter.

7. DISASSEMBLY

Note:
Even if the unit shown in the photos and illustrations in this manual may differ from your product, the procedures described here are common.

Disassembly

[1] Chassis Section

[1-1] R/Cover

(1) Remove the eight screws. (XBA3019)
(2) Remove the R/Cover.
(3) Disconnect the three connectors.

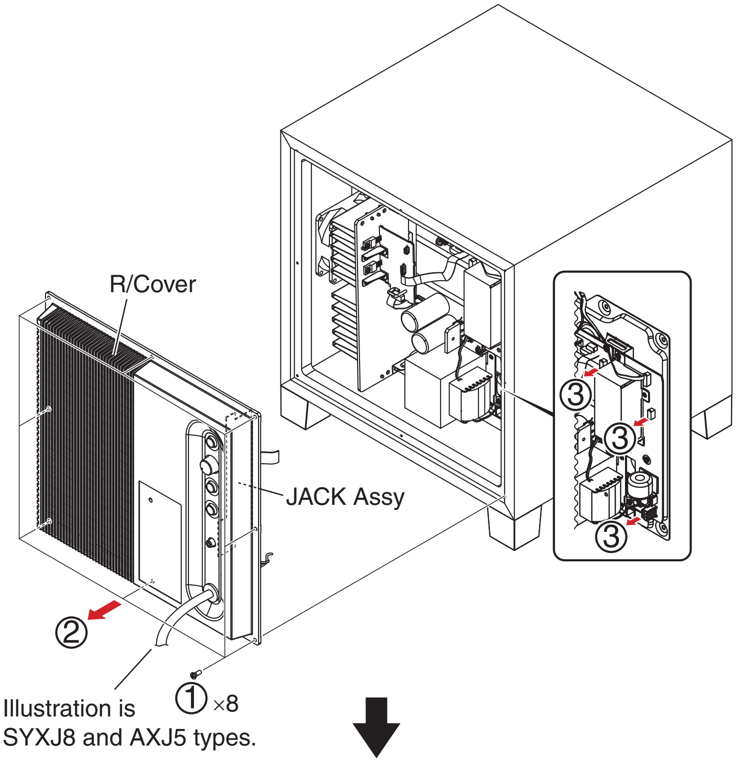
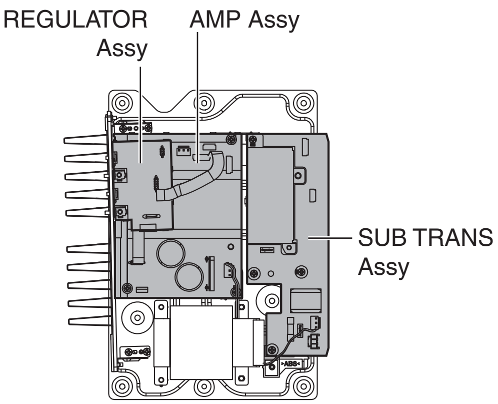
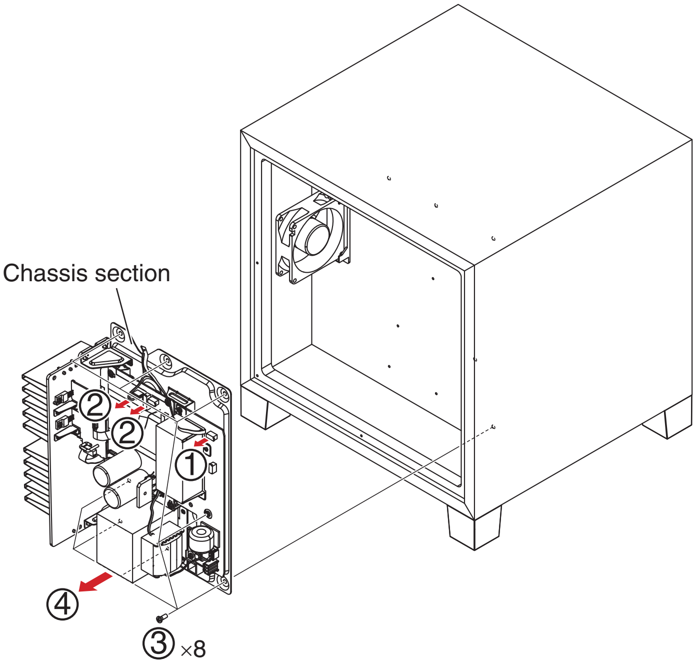


Illustration is SYXJ8 and AXJ5 types.

[1-2] Chassis section

(1) Remove the jumper wire.
(2) Disconnect the two connectors.
(3) Remove the eight screws. (XBA3020)
(4) Remove the Chassis section.





[2] Speaker and LED Assy

[2-1] Speaker

(1) Remove the four screws.
(2) Remove the speaker.
(3) Remove the wire from the speaker.

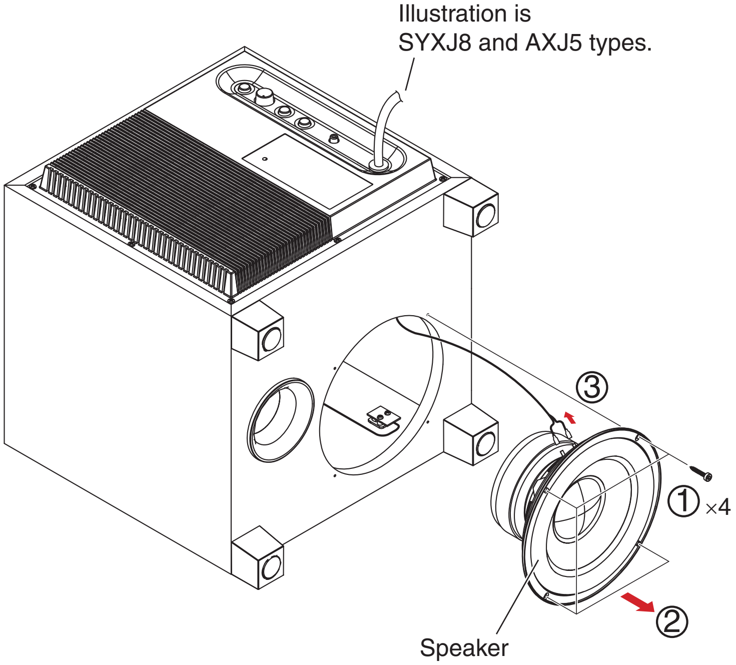


Illustration is
SYXJ8 and AXJ5 types.

[2-2] LED Assy

(1) Remove the two screws.
(2) Remove the LED Assy.
(3) Remove the jumper wire.

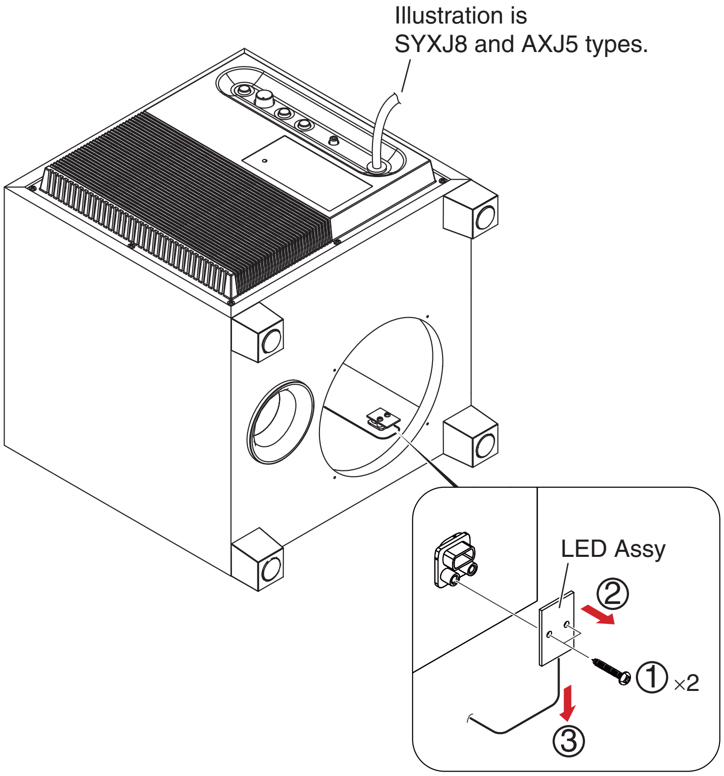


Illustration is
SYXJ8 and AXJ5 types.

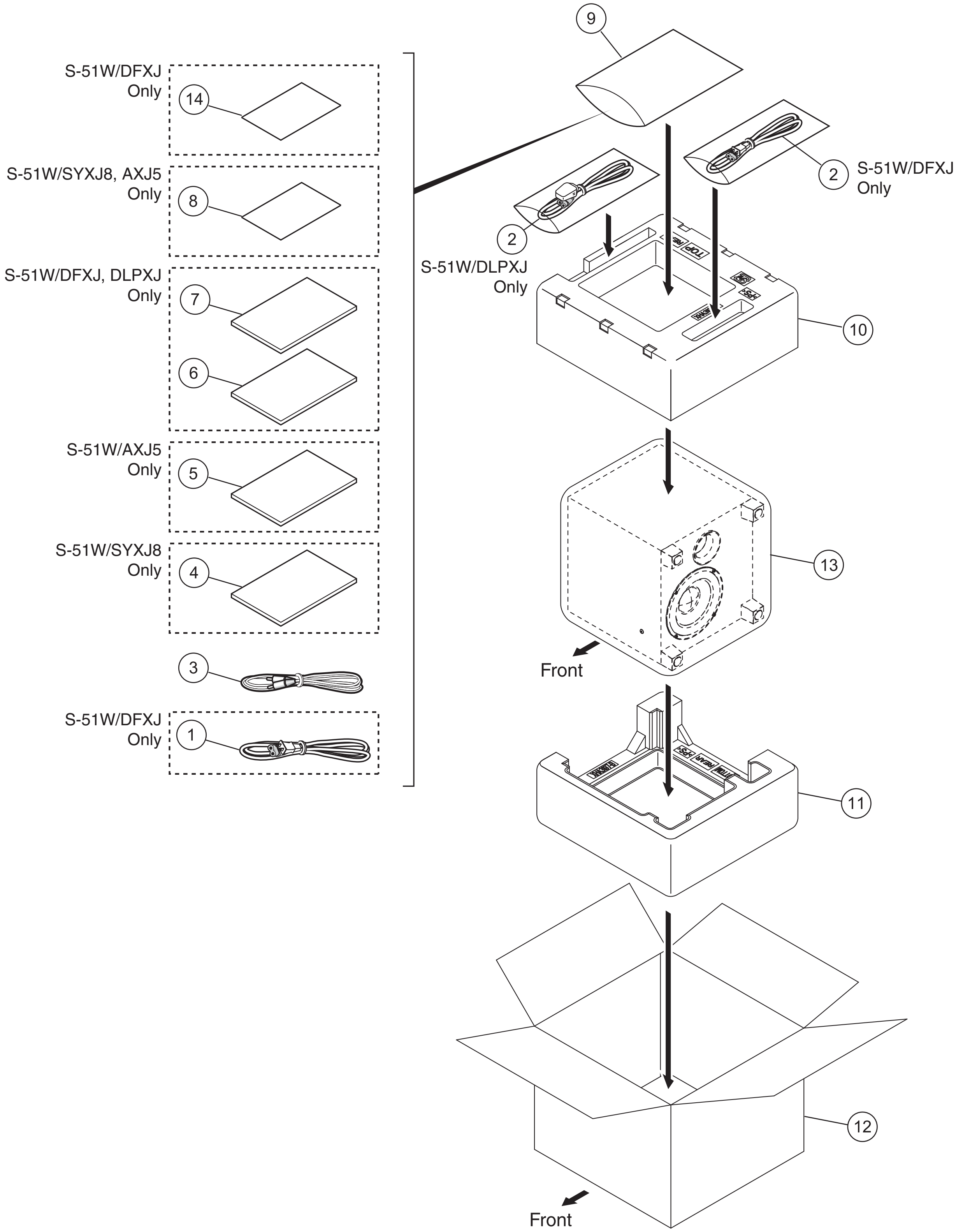
8. EACH SETTING AND ADJUSTMENT

There is no information to be shown in this chapter.

9. EXPLODED VIEWS AND PARTS LIST

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Screws adjacent to ▼ mark on product are used for disassembly.*
- *For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)*

9.1 PACKING SECTION



(1) PACKING SECTION PARTS LIST

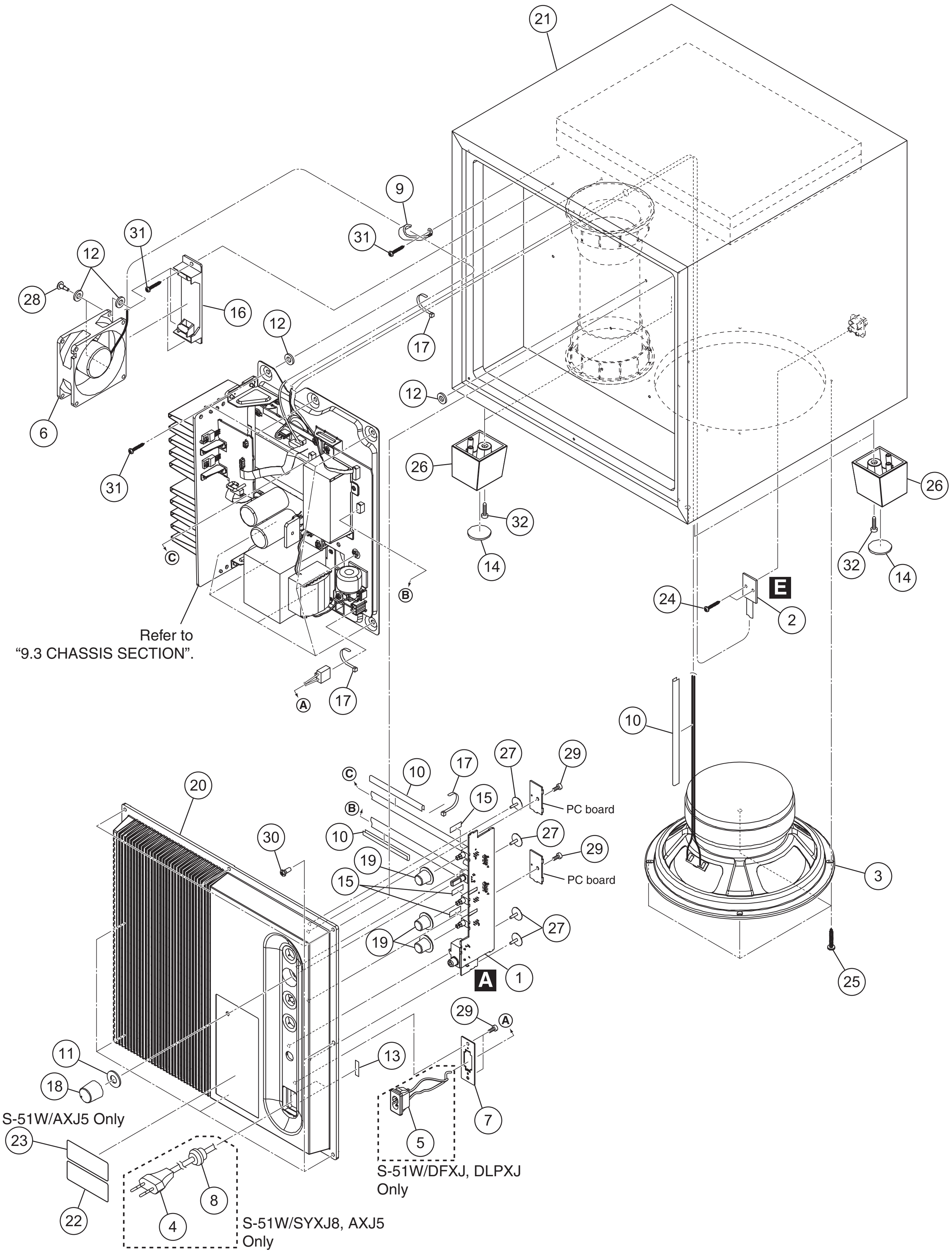
Mark	No.	Description	Part No.
⚠	1	Power Cord	See Contrast table (2)
⚠	2	Power Cord	See Contrast table (2)
	3	RCA Plug Cord	XDE3075
	4	Operating Instructions	See Contrast table (2)
	5	Operating Instructions	See Contrast table (2)
	6	Operating Instructions	See Contrast table (2)
	7	Operating Instructions	See Contrast table (2)
NSP	8	Warranty Card	See Contrast table (2)
NSP	9	Polyethylene Bag (0.03 x 230 x 340)	Z21-038
	10	Top Pad	XHA3196
	11	Bottom Pad	XHA3197
	12	Packing Case 51	See Contrast table (2)
	13	Pack Sheet PSW	XHG3019
	14	Caution Card SB	See Contrast table (2)

(2) CONTRAST TABLE

S-51W/SYXJ8, AXJ5, DFXJ and DLPXJ are constructed the same except for the following:

Mark	No.	Symbol and Description	S-51W /SYXJ8	S-51W /AXJ5	S-51W /DFXJ	S-51W /DLPXJ
⚠	1	Power Cord	Not used	Not used	ADG7097	Not used
⚠	2	Power Cord	Not used	Not used	ADG1158	ADG7108
	4	Operating Instructions (En, Fr, De, It, Nl, Es, Pt, Sv, Da, No, Fi, Ru)	XRC3473	Not used	Not used	Not used
	5	Operating Instructions (Zhcn)	Not used	XRC3474	Not used	Not used
	6	Operating Instructions (En, Es)	Not used	Not used	XRC3475	XRC3475
	7	Operating Instructions (Zhtw)	Not used	Not used	XRC3476	XRC3476
NSP	8	Warranty Card EU	ARY7128	Not used	Not used	Not used
NSP	8	Warranty Card	Not used	ARY7118	Not used	Not used
	12	Packing Case 51 BSY	XHD3962	Not used	Not used	Not used
	12	Packing Case 51 BAXJ	Not used	XHD3964	Not used	Not used
	12	Packing Case 51 DF	Not used	Not used	XHD3939	Not used
	12	Packing Case 51 DL	Not used	Not used	Not used	XHD3940
	14	Caution Card SB	Not used	Not used	ARM7064	Not used

9.2 EXTERIOR SECTION



Refer to
"9.3 CHASSIS SECTION".

S-51W/AXJ5 Only

S-51W/DFXJ, DLPXJ
Only

S-51W/SYXJ8, AXJ5
Only

(1) EXTERIOR SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	JACK Assy	XWZ4451
	2	LED Assy	XWM3439
	3	Speaker	B20GR12-54D
⚠	4	Power Cord	See Contrast table (2)
	5	Cable Assy (J1903)	See Contrast table (2)
⚠	6	DC FAN Motor	XXM3015
	7	Cord Bracket	See Contrast table (2)
	8	Cord Stopper	See Contrast table (2)
	9	Cord Clamper	RNH1005
NSP	10	SP Wire 4P Cushion	XEB3099
	11	Knob Cushion	XEB3212
	12	FAN Cushion	XEB3139
	13	Cord Bracket Cushion	XEB3143
	14	PSW2 Leg Cushion	XEB3192
	15	Button Cushion	XEB3198

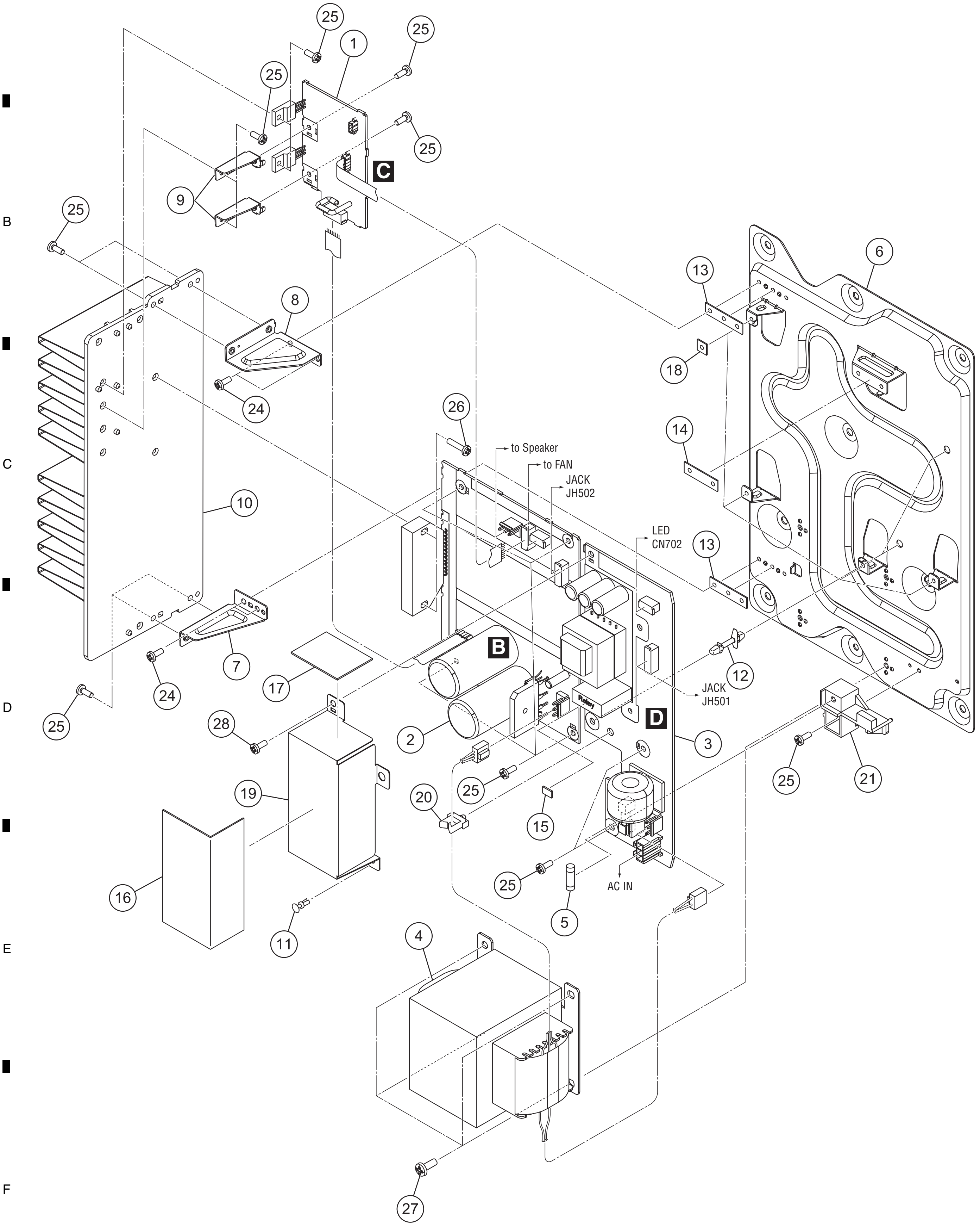
Mark	No.	Description	Part No.
	16	FAN Holder PSW2	XMR3122
NSP	17	Binder (BK-1)	ZCA-BK1
	18	Volume Knob PSW2	XAK3664
	19	Push Button PSW2	XAK3665
	20	R/Cover PSW2	See Contrast table (2)
NSP	21	SBox PSW2 20CM	XXG3438
	22	Name Label 51W	See Contrast table (2)
NSP	23	CCC S & E Label	See Contrast table (2)
	24	Screw	4399 294 98181
	25	Screw	4399 294 98239
	26	Foot	4399 294 19351
	27	Screw (FE)	ABA7110
	28	Screw (3 x 11.6)	ABA7146
	29	Screw	BPZ30P080FTB
	30	Screw M3	XBA3019
	31	Screw M4	XBA3020
	32	Screw	4399 294 98234

(2) CONTRAST TABLE

S-51W/SYXJ8, AXJ5, DFXJ and DLPXJ are constructed the same except for the following:

Mark	No.	Symbol and Description	S-51W /SYXJ8	S-51W /AXJ5	S-51W /DFXJ	S-51W /DLPXJ
⚠	4	Power Cord	VDG1061	VDG1088	Not used	Not used
	5	Cable Assy (J1903)	Not used	Not used	XDX3104	XDX3104
	7	Cord Bracket	XNG3186	XNG3186	Not used	Not used
	7	Cord Bracket INL	Not used	Not used	XNG3187	XNG3187
	8	Cord Stopper	CM-22B	CM-22B	Not used	Not used
	20	R/Cover PSW2	XMC3006	XMC3006	XMC3007	XMC3007
	22	Name Label 51W SY	XAX3799	Not used	Not used	Not used
	22	Name Label 51W AXJ	Not used	XAX3801	Not used	Not used
	22	Name Label 51W DF	Not used	Not used	XAX3802	Not used
	22	Name Label 51W DL	Not used	Not used	Not used	XAX3803
NSP	23	CCC S & E Label	Not used	DRW2310	Not used	Not used

9.3 CHASSIS SECTION



(1) CHASSIS SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	REGULATOR Assy	XWZ4446
	2	AMP Assy	XWZ4448
	3	SUB TRANS Assy	See Contrast table (2)
⚠	4	PSW2 Trans (T1501)	See Contrast table (2)
⚠	5	Fuse (FU1)	See Contrast table (2)
NSP	6	Chassis PSW	XNA3066
	7	H/S Bracket L	XNG3188
	8	H/S Bracket R	XNG3189
	9	REG Bracket	XNG3190
NSP	10	H/Sink PSW	XNH3051
	11	Push Rivet (Brown)	AEC7205
	12	PCB Holder	PNW2562
	13	H/S Bracket Cushion	XEB3123
	14	Trans Cushion	XEB3134
	15	Barrier Cushion	XEB3135
	16	Barrier Top Cushion	XEB3136
	17	Barrier Top Cushion	XEB3137
	18	AMP Assy Cushion	XEB3138
	19	Subtrans Barrier-KU	XEC3097
	20	Wire Saddle	XEC3100
	21	PCB Support PSW2	XMR3130
	22		•••••
	23		•••••
	24	Screw	BBZ30P060FTC
	25	Screw	BBZ30P080FNI
	26	Screw	BBZ30P140FTC
	27	Screw	BBZ40P080FNI
	28	Screw	BPZ30P080FTB

(2) CONTRAST TABLE

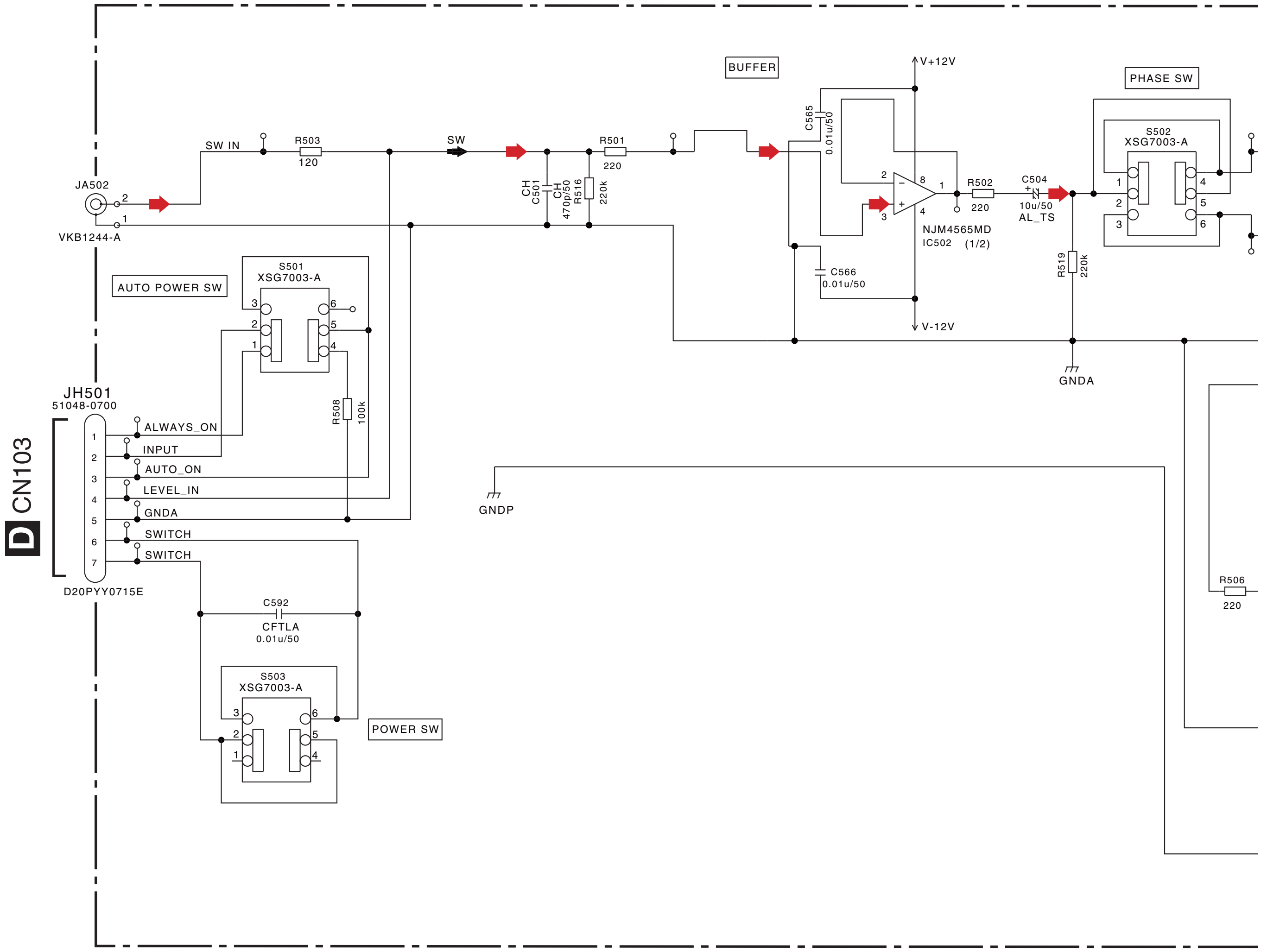
S-51W/SYXJ8, AXJ5, DFXJ and DLPXJ are constructed the same except for the following:

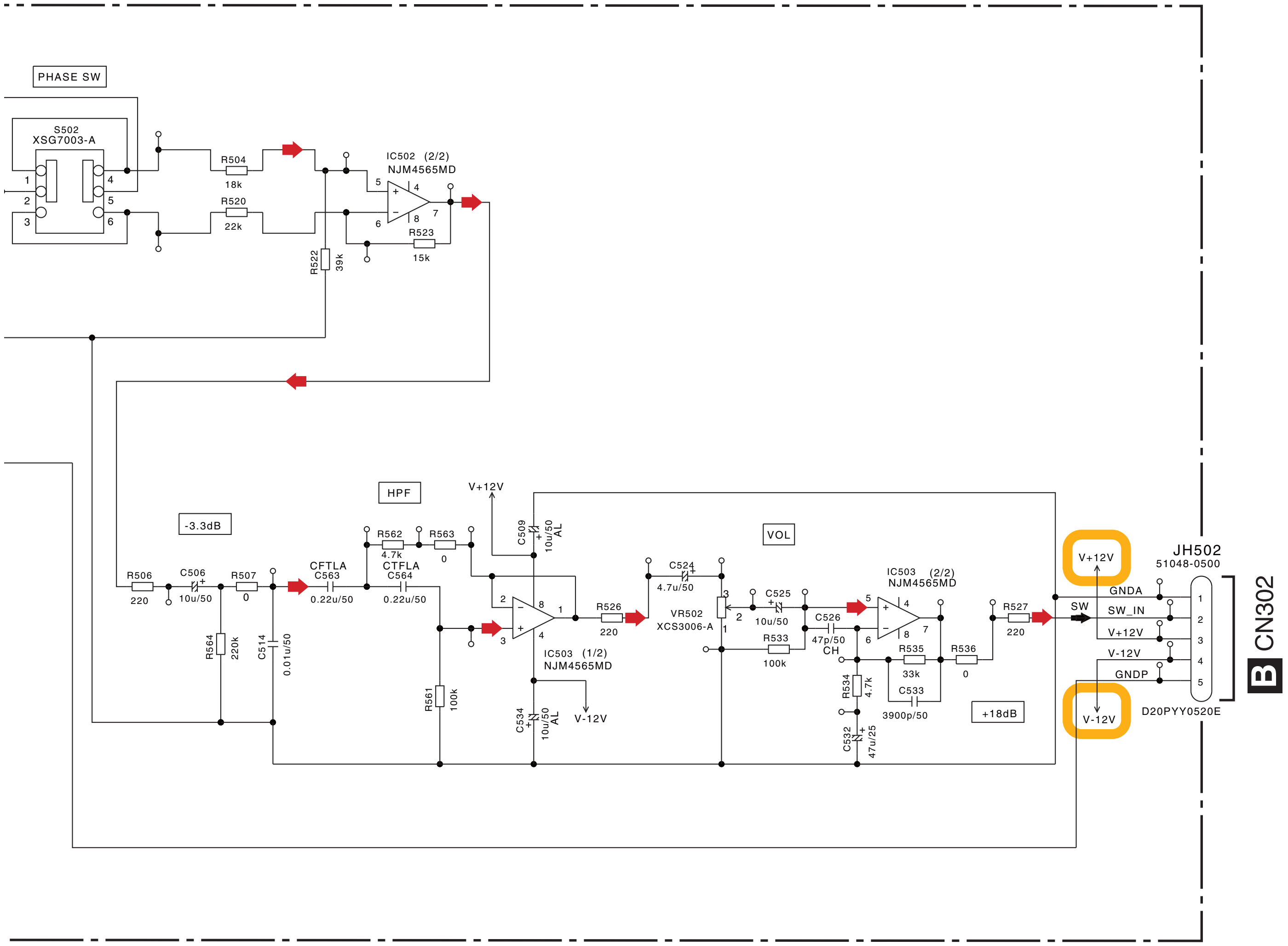
Mark	No.	Symbol and Description	S-51W /SYXJ8	S-51W /AXJ5	S-51W /DFXJ	S-51W /DLPXJ
	3	SUB TRANS Assy	XWZ4452	XWZ4472	XWZ4450	XWZ4449
⚠	4	PSW2 Trans DL (T1501)	XTS3121	XTS3121	Not used	XTS3121
⚠	4	PSW2 Trans DF (T1501)	Not used	Not used	XTS3122	Not used
⚠	5	Fuse (FU1: 1.25 A)	REK1160	REK1160	Not used	REK1160
⚠	5	Fuse (FU1: 3.15 A)	Not used	Not used	REK1164	Not used

10. SCHEMATIC DIAGRAM

10.1 JACK ASSY

A JACK ASSY (XWZ4451)

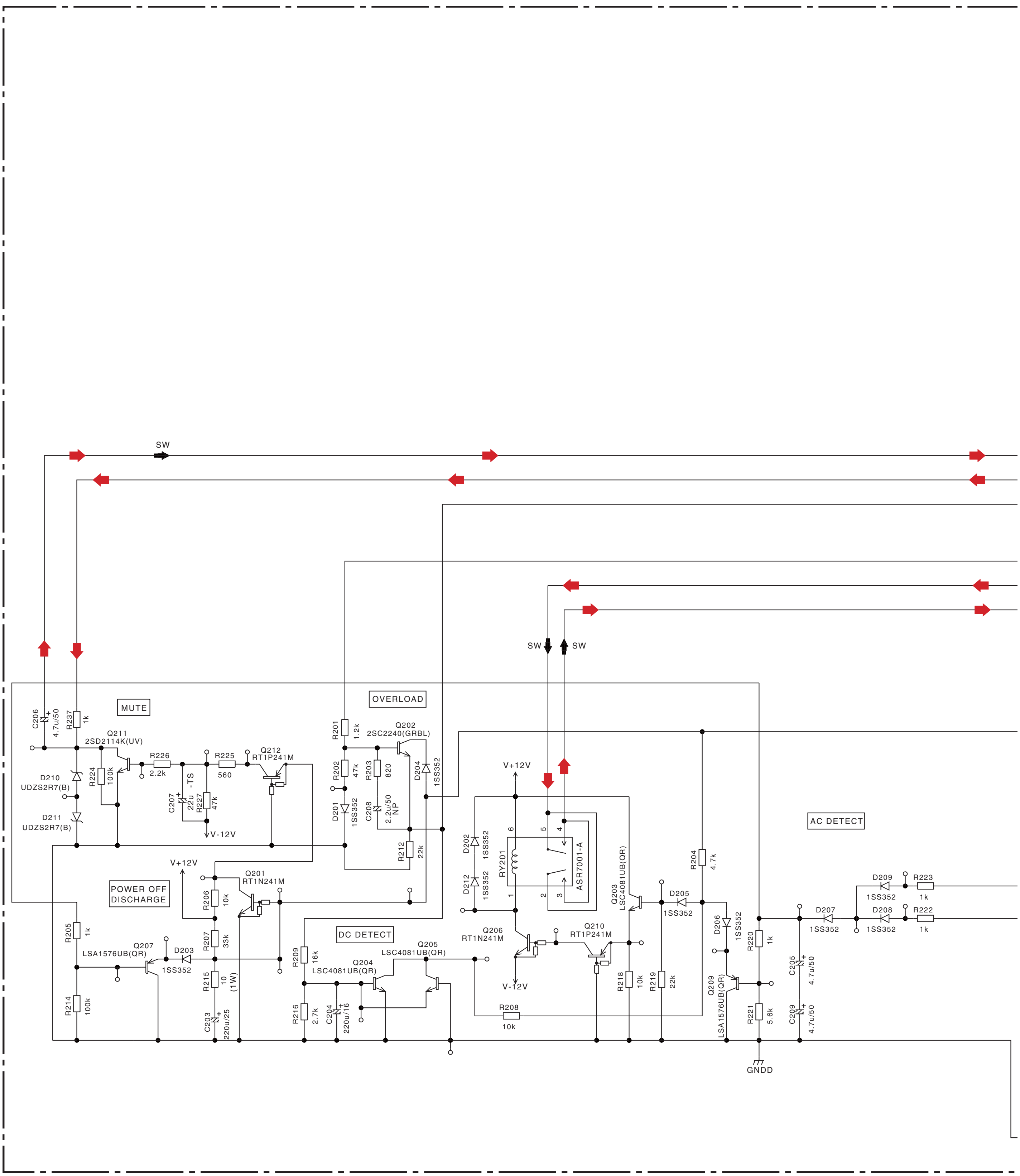




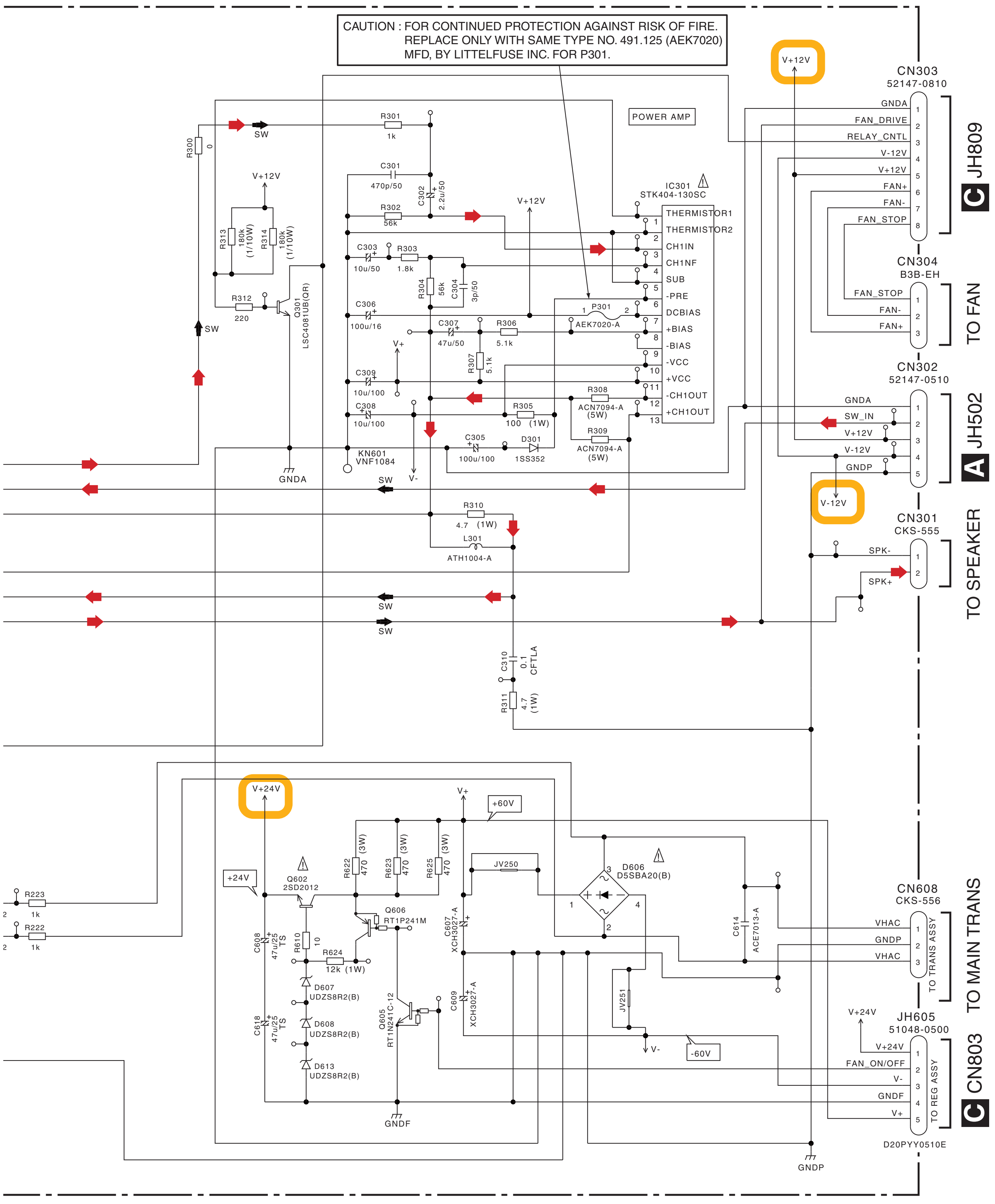
➡ : Audio Signal Route

10.2 AMP ASSY

B AMP ASSY (XWZ4448)



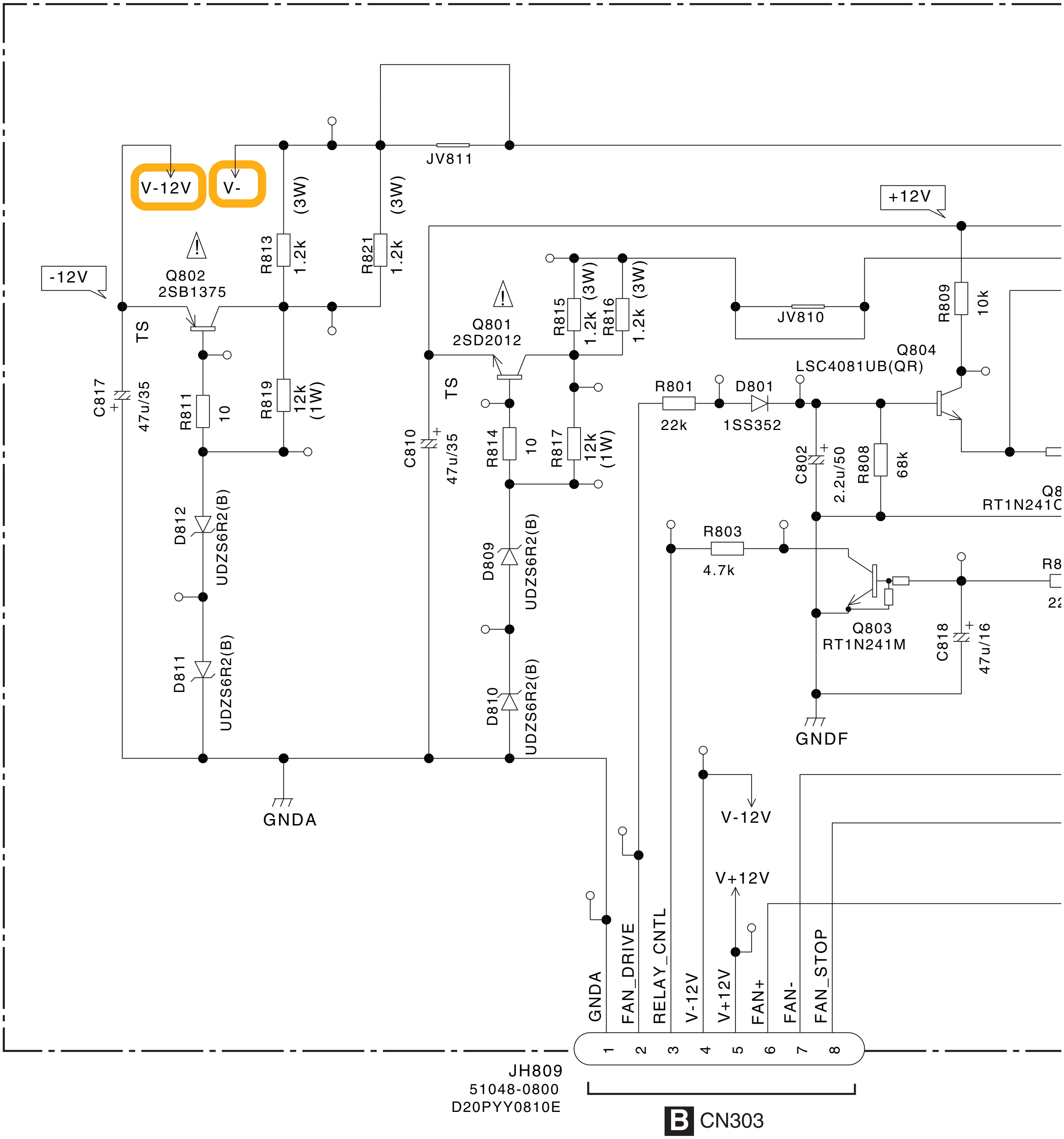
➡ : Audio Signal Route

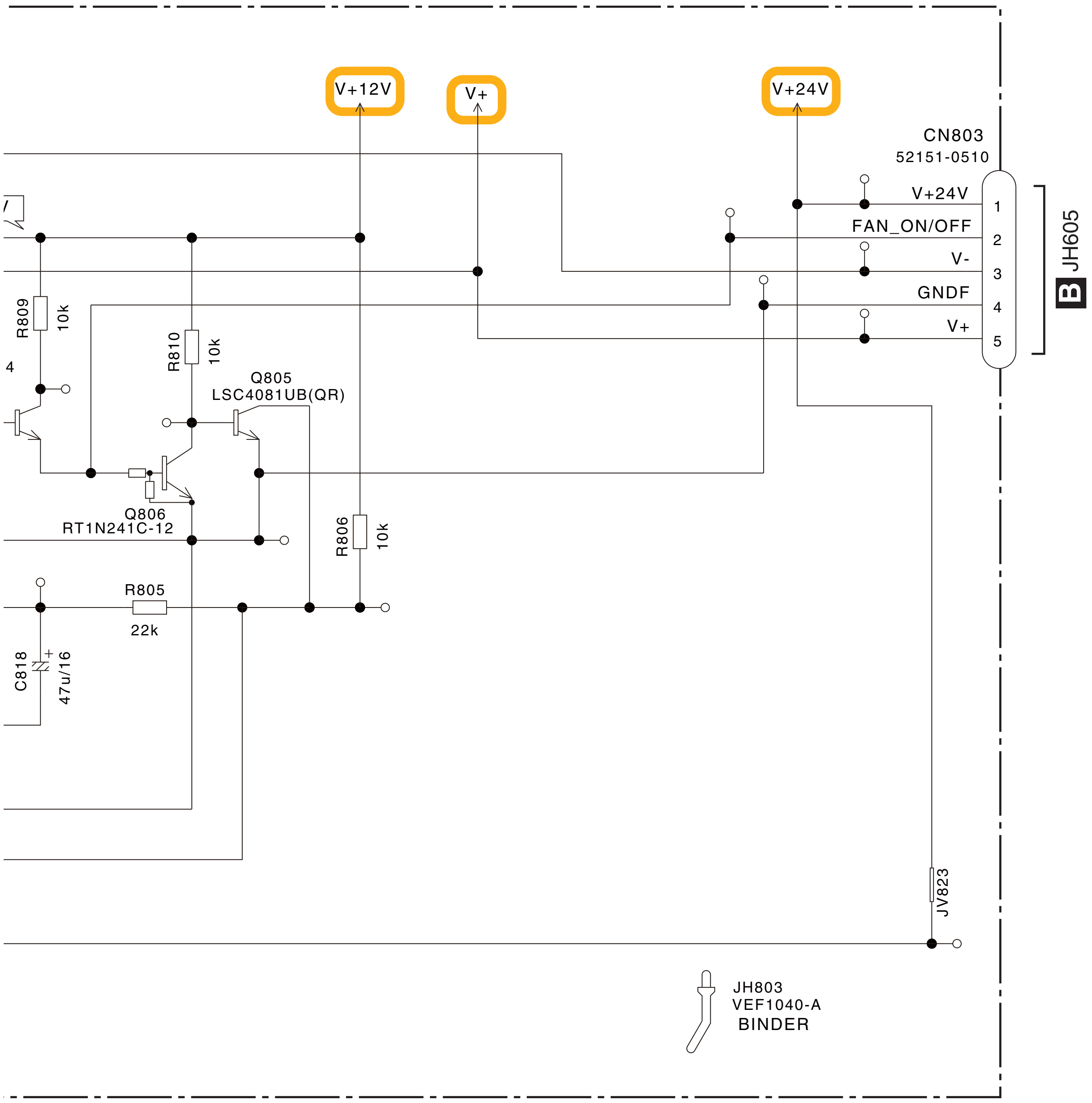


CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491.125 (AEK7020) MFD, BY LITTELFUSE INC. FOR P301.

10.3 REGULATOR ASSY

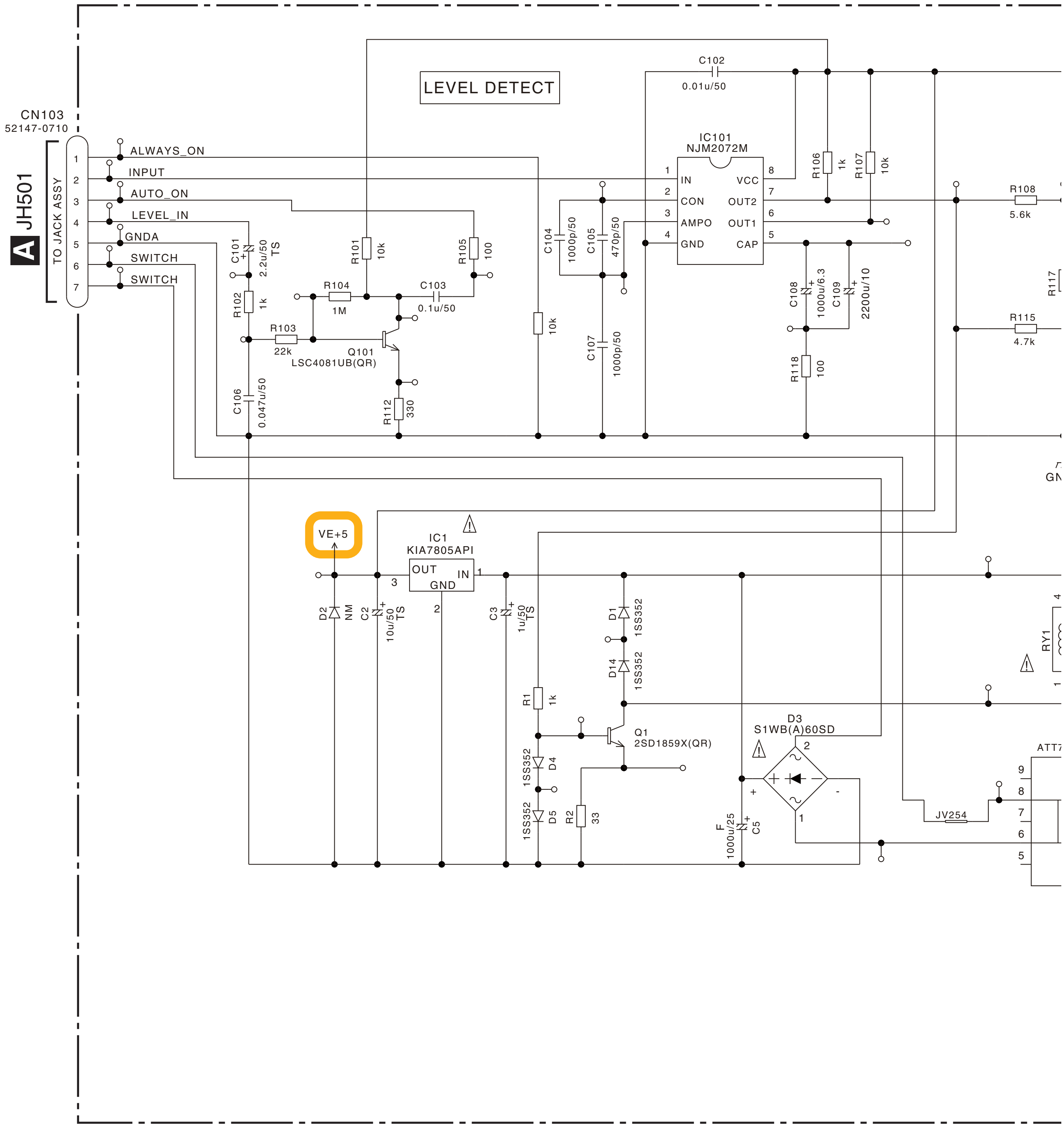
C REGULATOR ASSY (XWZ4446)



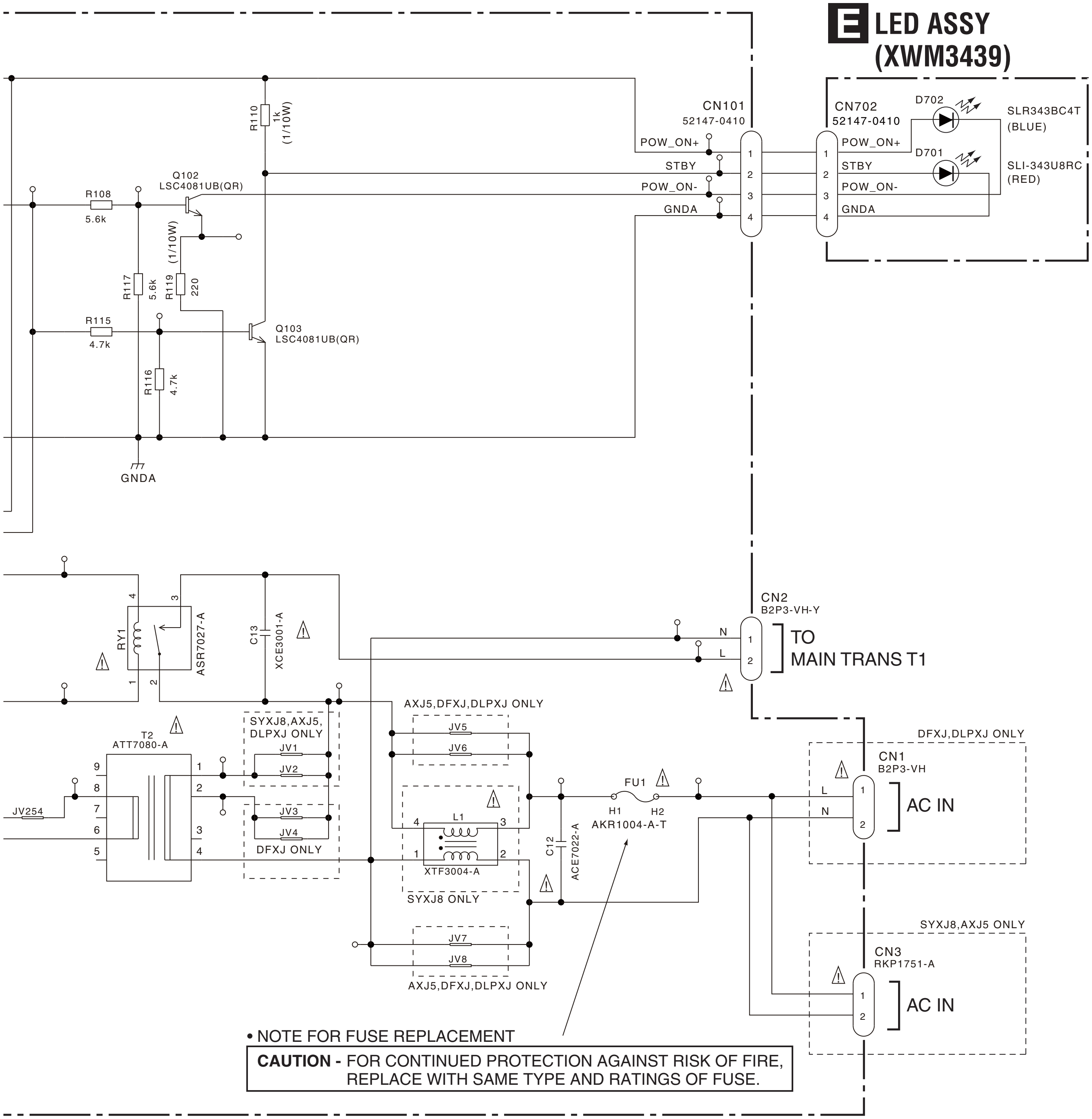

V+12V
V+
V+24V
CN803
52151-0510
V+24V
FAN_ON/OFF
V-
GNDF
V+
1
2
3
4
5
B JH605
R809
10k
R810
10k
4
Q805
LSC4081UB(QR)
Q806
RT1N241C-12
R806
10k
R805
22k
C818
47u/16
JV823
JH803
VEF1040-A
BINDER

10.4 SUB TRANS and LED ASSYS

D SUB TRANS ASSY
(XWZ4452: SYXJ8)
(XWZ4472: AXJ5)
(XWZ4450: DFXJ)
(XWZ4449: DLPXJ)



E LED ASSY (XWM3439)



• NOTE FOR FUSE REPLACEMENT

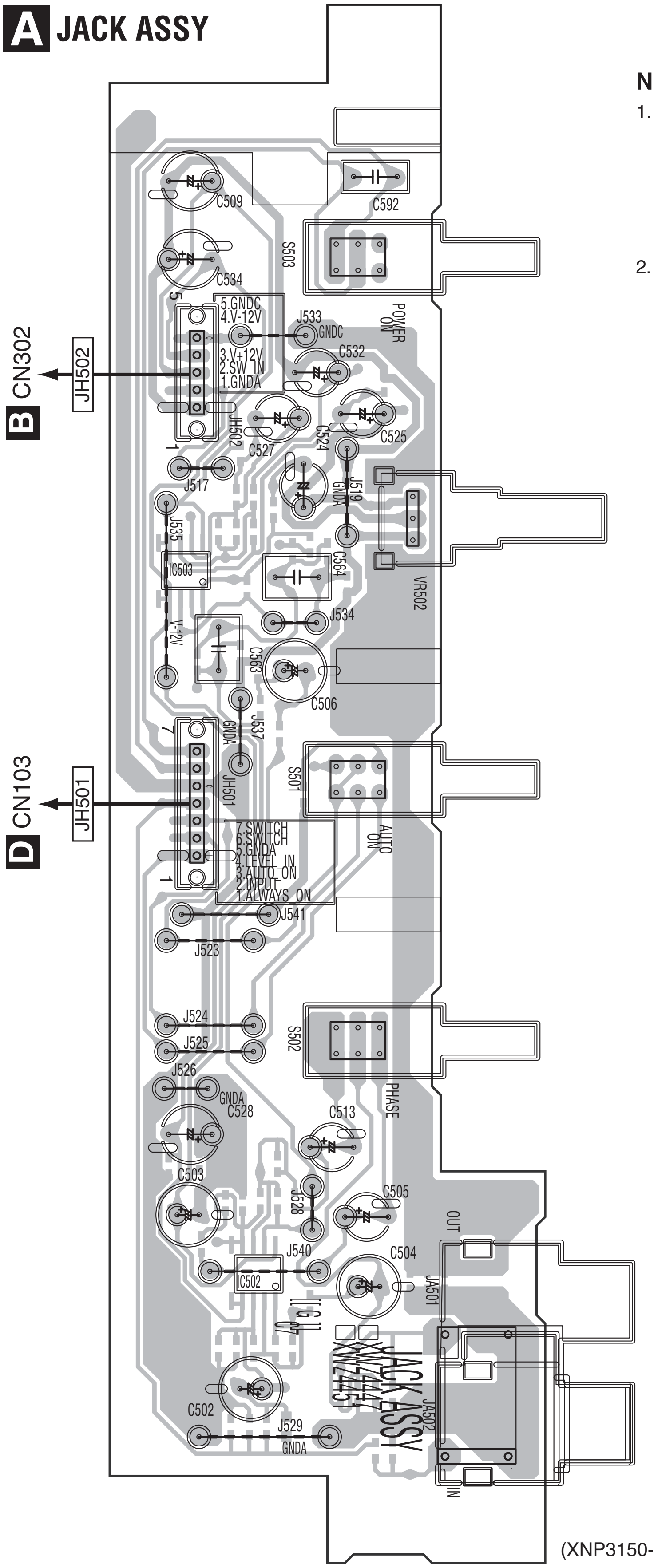
CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE WITH SAME TYPE AND RATINGS OF FUSE.

11. PCB CONNECTION DIAGRAM

11.1 JACK ASSY

A

SIDE A

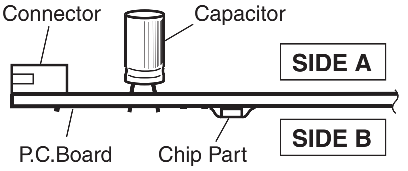


(XNP3150-B)

NOTE FOR PCB DIAGRAMS :

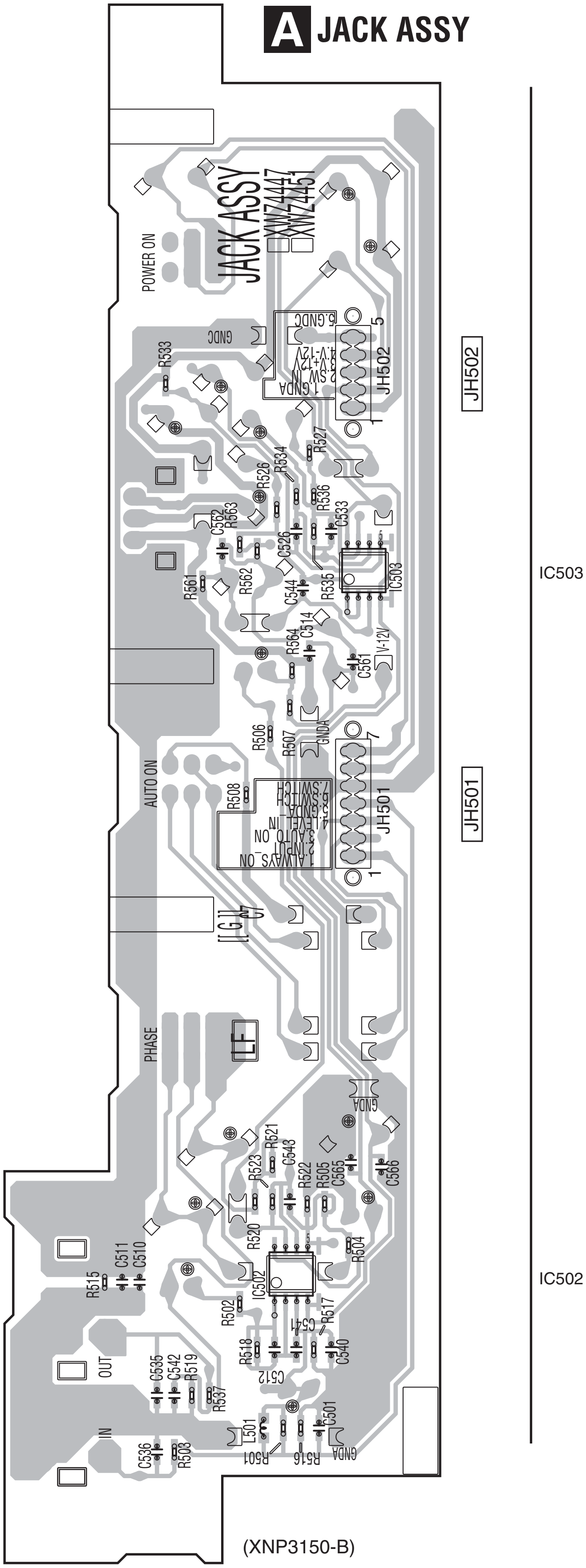
1. The parts mounted on this PCB include all necessary parts for several destinations. For further information for respective destinations, be sure to check with the schematic diagram.

2. View point of PCB diagrams.



SIDE B

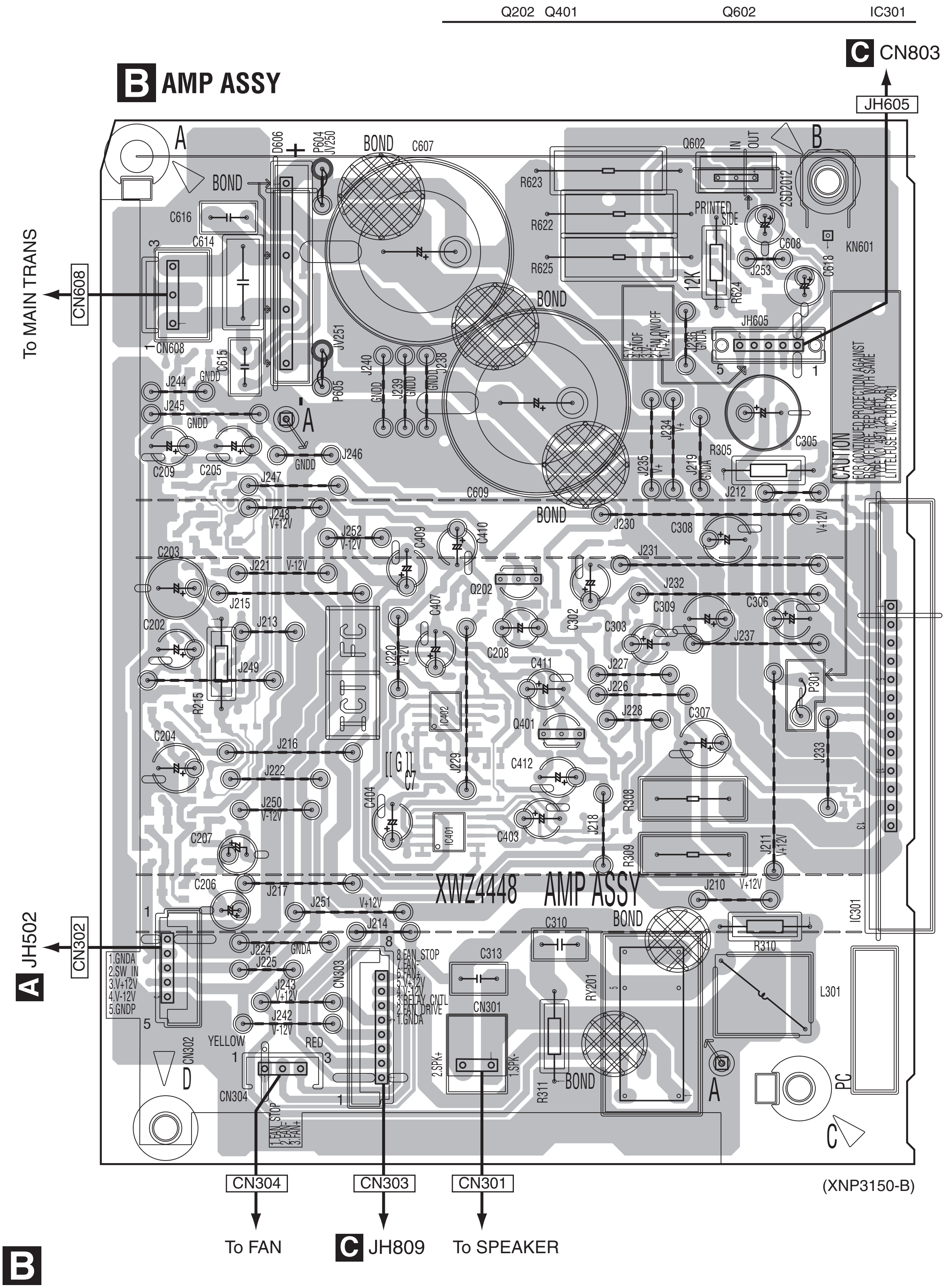
A JACK ASSY



(XNP3150-B)

11.2 AMP ASSY

SIDE A

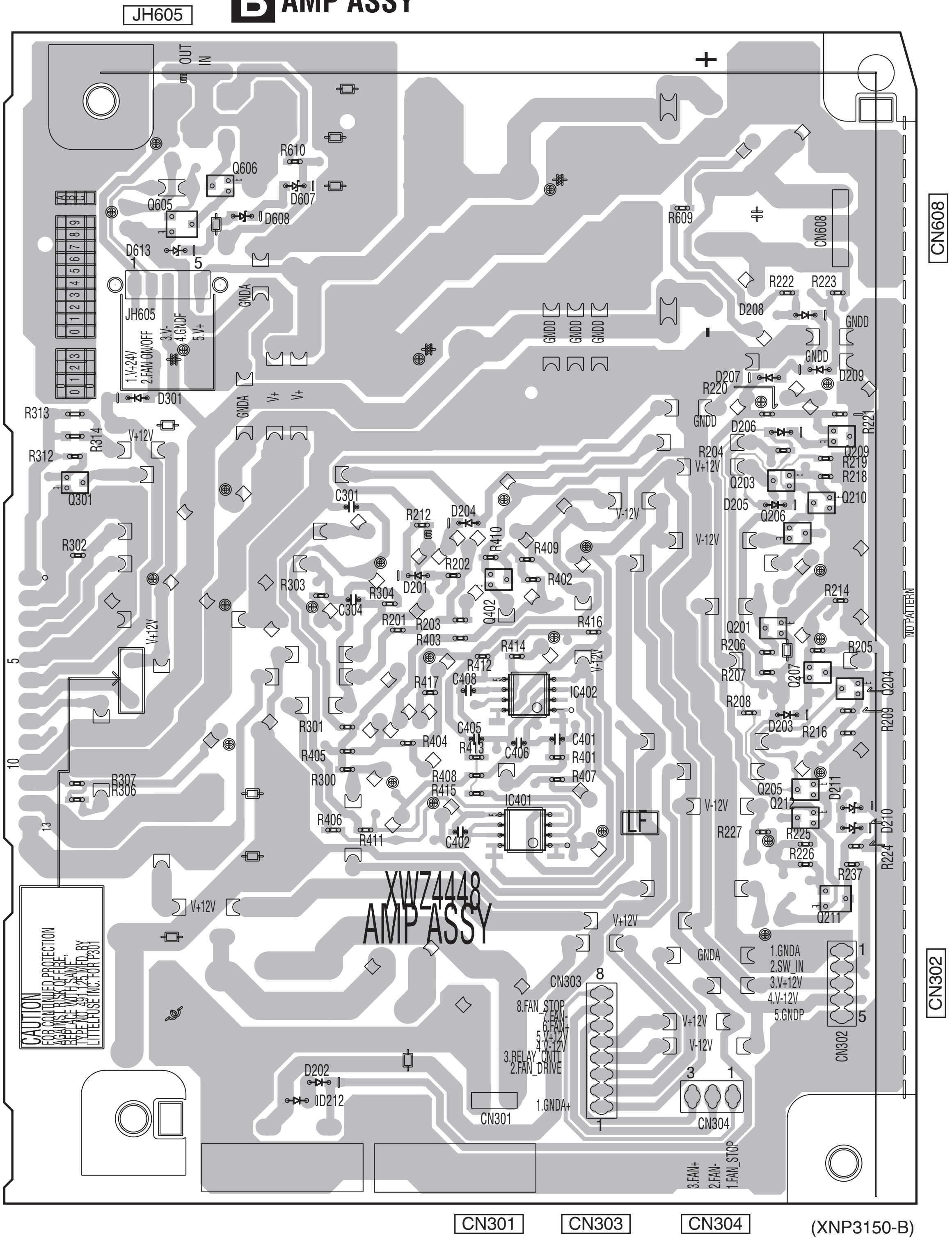


(XNP3150-B)

SIDE B

Q209
Q203 Q210
Q206
Q201 Q207
Q205 Q204
Q212
Q211
Q402
IC402
IC401
Q301
Q605 Q606

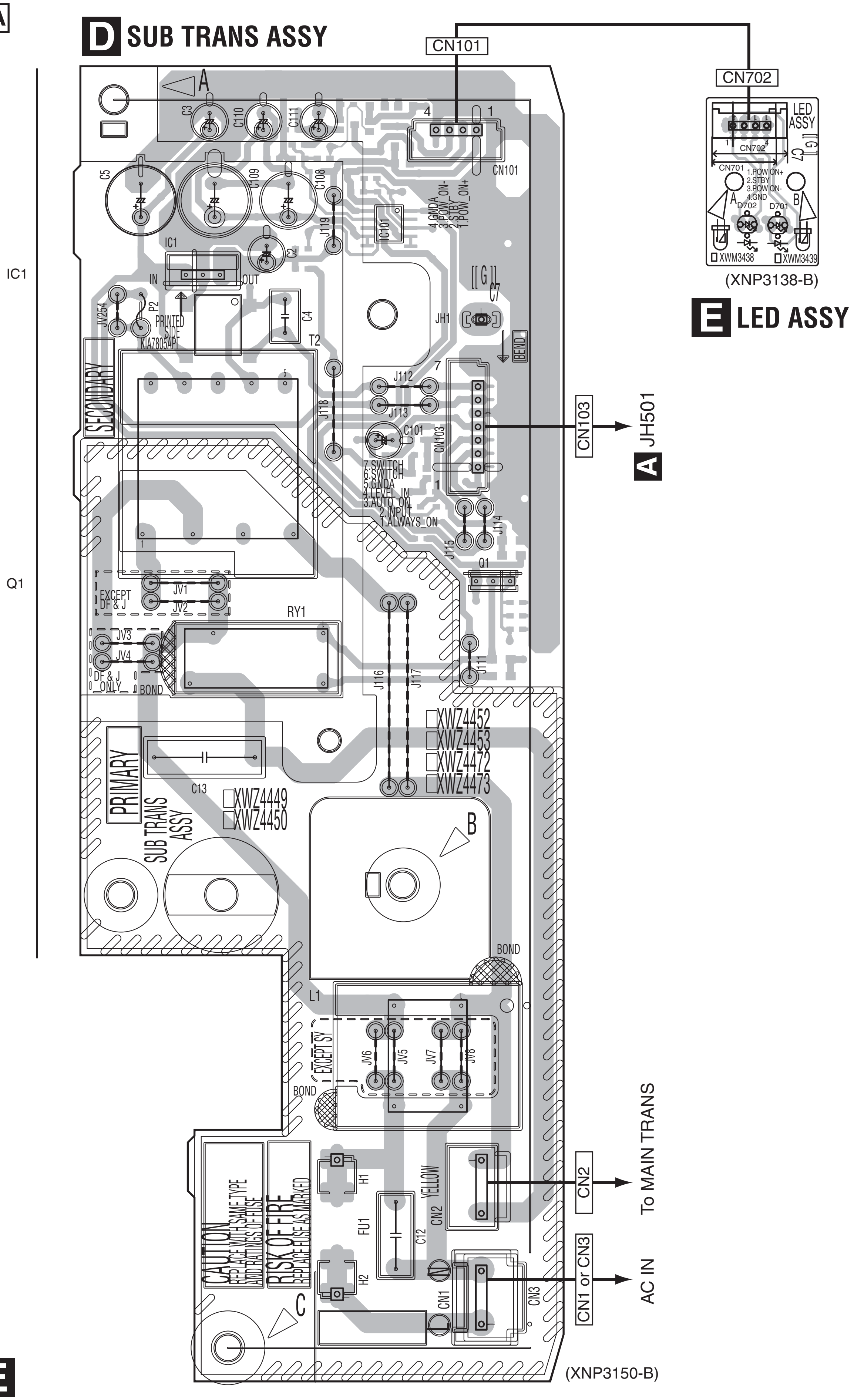
B AMP ASSY



(XNP3150-B)

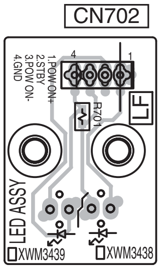
11.3 SUB TRANS and LED ASSYS

SIDE A



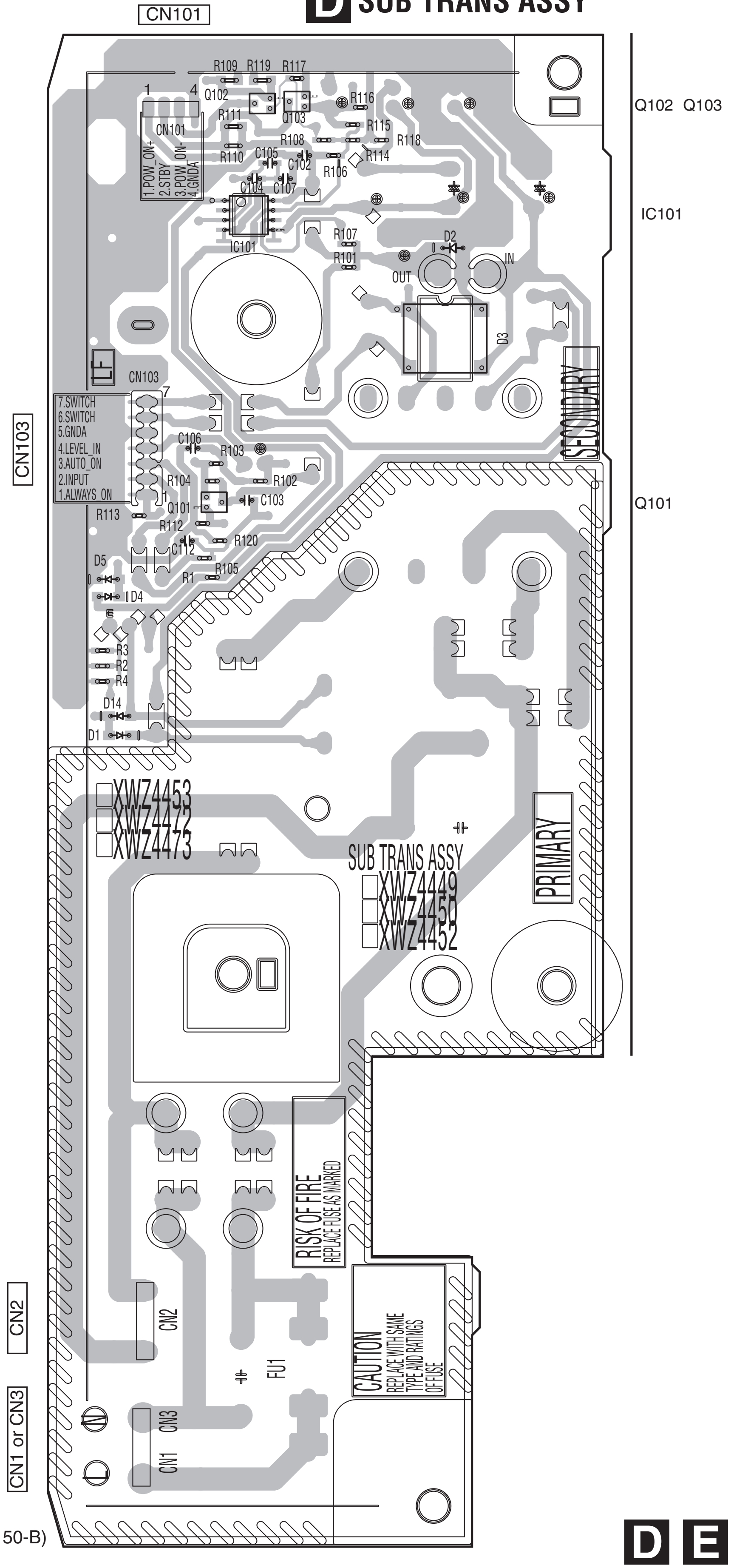
SIDE B

D SUB TRANS ASSY



(XNP3138-B)

E LED ASSY



(XNP3150-B)

D E

11.4 REGULATOR ASSY

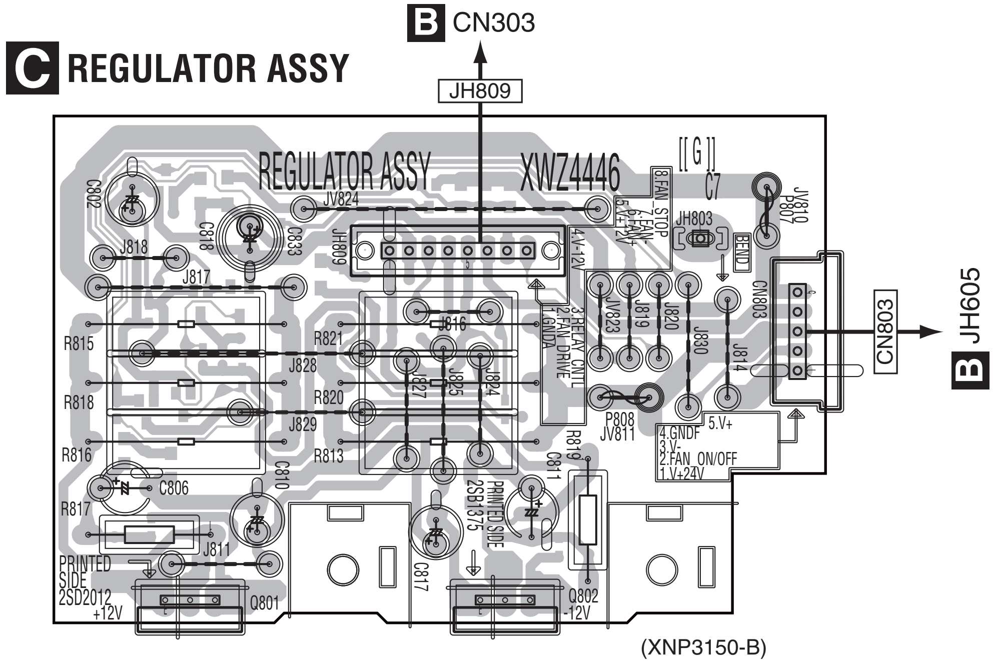
SIDE A

A

B

C

C REGULATOR ASSY



(XNP3150-B)

Q801 Q802

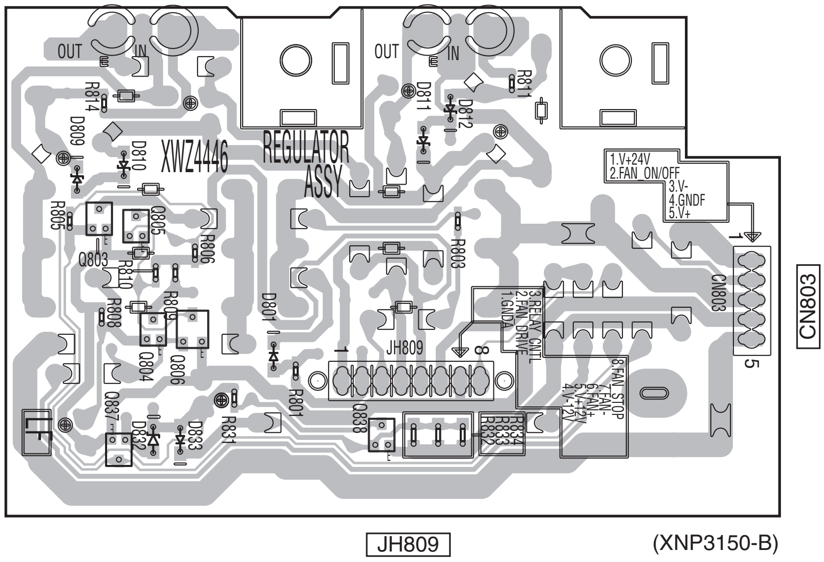
SIDE B

D

E

F

C REGULATOR ASSY



JH809

(XNP3150-B)

Q803 Q805
Q804 Q806
Q837
Q838

12. PCB PARTS LIST

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47 k ohm (tolerance is shown by J = 5%, and K = 10%).

560 Ω → 56 × 10^1 → 561 .... RD1/4PU $\boxed{5}\boxed{6}\boxed{1}$ J
47 kΩ → 47 × 10^3 → 473 .... RD1/4PU $\boxed{4}\boxed{7}\boxed{3}$ J
0.5 Ω → R50 .... RN2H $\boxed{R}\boxed{5}\boxed{0}$ K
1 Ω → 1R0 .... RS1P $\boxed{1}\boxed{R}\boxed{0}$ K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62 kΩ → 562 × 10^1 → 5621 .... RN1/4PC $\boxed{5}\boxed{6}\boxed{2}\boxed{1}$ F

- *Meaning of the figures and others in the parentheses in the parts list.*

Example) IC 301 is on the point (face A, 91 of x-axis, and 111 of y-axis) of the corresponding PC board.
IC 301 (A, 91, 111) IC NJM2068V

LIST OF ASSEMBLIES

Mark	No. Description	Part No.
	1..POWER AMP ASSY (S-51W/SYXJ8)	XWM3516
	1..POWER AMP ASSY (S-51W/AXJ5)	XWM3528
	1..POWER AMP ASSY (S-51W/DFXJ)	XWM3519
	1..POWER AMP ASSY (S-51W/DLPXJ)	XWM3518
	2..REGULATOR ASSY	XWZ4446
	2..AMP ASSY	XWZ4448
	2..JACK ASSY	XWZ4451
	2..SUB TRANS ASSY (S-51W/SYXJ8)	XWZ4452
	2..SUB TRANS ASSY (S-51W/AXJ5)	XWZ4472
	2..SUB TRANS ASSY (S-51W/DFXJ)	XWZ4450
	2..SUB TRANS ASSY (S-51W/DLPXJ)	XWZ4449
	1..LED ASSY	XWM3439

CONTRAST OF PCB ASSEMBLIES

D SUB TRANS ASSY

XWZ4452, XWZ4472, XWZ4450 and XWZ4449 are constructed the same except for the following:

Mark	Symbol and Description	XWZ4452	XWZ4472	XWZ4450	XWZ4449
⚠	L1 Line Filter	XTF3004	Not used	Not used	Not used
⚠	CN1 VH Connector (2P)	Not used	Not used	B2P3-VH	B2P3-VH
⚠	CN3 AC Socket with connector	RKP1751	RKP1751	Not used	Not used

PCB PARTS LIST FOR S-51W/SYXJ8 UNLESS OTHER WISE NOTED

A JACK ASSY

SEMICONDUCTORS

Mark	No. Description	Part No.
	IC 502,503	NJM4565MD

MISCELLANEOUS

Mark	No. Description	Part No.
	J 501 JUMPER WIRE	D20PYY0715E
	J 502 JUMPER WIRE	D20PYY0520E
	JA 502 JACK	VKB1244
	VR 502 VARIABLE (10K-X1)	XCS3006
	S 501-503 PUSH SWITCH	XSG7003
	JH 501 7P CABLE HOLDER	51048-0700
	JH 502 5P CABLE HOLDER	51048-0500

RESISTORS

Mark	No. Description	Part No.
	All Resistors	RS1/10SR###J

CAPACITORS

Mark	No. Description	Part No.
	C 501	CCSRCH471J50
	C 504,506,525	CEAT100M50
	C 509,534	CEAL100M50
	C 514,565,566	CKSRYB103K50
	C 524	CEAL4R7M50
	C 526	CCSRCH470J50
	C 532	CEAT470M25
	C 533	CKSRYB392K50
	C 563,564	CFTLA224J50
	C 592	CFTLA103J50

B AMP ASSY

SEMICONDUCTORS

Mark	No. Description	Part No.
⚠	IC 301	STK404-130SC
	Q 201,206	RT1N241M
	Q 202	2SC2240
	Q 203-205,301	LSC4081UB
	Q 207,209	LSA1576UB
	Q 210,212,606	RT1P241M
	Q 211	2SD2114K

Mark	No.	Description	Part No.
⚠	Q 602		2SD2012
	Q 605		RT1N241C-12
	D 201-209,212,301		1SS352
	D 210,211		UDZS2R7(B)
⚠	D 606		D5SBA20(B)
	D 607,608,613		UDZS8R2(B)

MISCELLANEOUS

	L 301	COIL	ATH1004
	J 605	JUMPER WIRE	D20PYY0510E
	KN 601	WRAPPING TERMINAL	VNF1084
	RY 201	RELAY	ASR7001
	CN 301	PLUG	CKS-555
	CN 302	5P JUMPER CONNECTOR	52147-0510
	CN 303	8P JUMPER CONNECTOR	52147-0810
	CN 304	3P TOP POST	B3B-EH
	CN 608	PLUG	CKS-556
	JH 605	5P CABLE HOLDER	51048-0500
⚠	P 301	PROTECTOR (125 mA)	AEK7020

RESISTORS

	R 215		RS1LMF100J
	R 305		RS1LMF101J
	R 308,309		ACN7094
	R 310,311		RS1LMF4R7J
	R 313,314		RS1/8SQ184J
	R 622,623,625		RS3LMF471J
	R 624		RS1LMF123J
	Other Resistors		RS1/10SR###J

CAPACITORS

	C 203		CEAT221M25
	C 204		CEAT221M16
	C 205,206,209		CEAT4R7M50
	C 207		CEAT220M25
	C 208		CEANP2R2M50
	C 301		CKSRYB471K50
	C 302		CEAT2R2M50
	C 303		CEAT100M50
	C 304		CCSRCJ3R0C50
	C 305		CEAT101M2A
	C 306		CEAT101M16
	C 307		CEAT470M50
	C 308,309		CEAT100M2A
	C 310		CFTLA104J50
	C 607,609		XCH3027
	C 608,618		CEAT470M25
	C 614		ACE7013

C REGULATOR ASSY

SEMICONDUCTORS

⚠	Q 801		2SD2012
⚠	Q 802		2SB1375
	Q 803		RT1N241M
	Q 804,805		LSC4081UB
	Q 806		RT1N241C-12
	D 801		1SS352
	D 809-812		UDZS6R2(B)

MISCELLANEOUS

Mark	No.	Description	Part No.
	J 809	JUMPER WIRE	D20PYY0810E
	803	PCB BINDER	VEF1040
	JH 809	8P CABLE HOLDER	51048-0800

RESISTORS

	R 813,815,816,821		RS3LMF122J
	R 817,819		RS1LMF123J
	Other Resistors		RS1/10SR###J

CAPACITORS

	C 802		CEAT2R2M50
	C 810,817		CEAT470M35
	C 818		CEAT470M16

D SUB TRANS ASSY

SEMICONDUCTORS

⚠	IC 1		KIA7805API
	IC 101		NJM2072M
	Q 1		2SD1859X
	Q 101-103		LSC4081UB
	D 1,4,5,14		1SS352
⚠	D 3		S1WB(A)60SD

MISCELLANEOUS

⚠	L 1	LINE FILTER	XTF3004
⚠	H 1,2	FUSE CLIP	AKR1004
⚠	RY 1	POWER RELAY	XSR3008
⚠	T 2	STANDBY TRANSFORMER	ATT7080
⚠	CN 2	CONNECTOR	B2P3-VH-Y
⚠	CN 3	AC CORD SOCKET	RKP1751
	CN 101	4P JUMPER CONNECTOR	52147-0410
	CN 103	7P JUMPER CONNECTOR	52147-0710

RESISTORS

	R 110		RS1/8SQ102J
	R 119		RS1/8SQ221J
	Other Resistors		RS1/10SR###J

CAPACITORS

	C 2		CEAT100M50
	C 3		CEAT1R0M50
	C 5		CEAT102M25
⚠	C 12		ACE7022
⚠	C 13		XCE3001
	C 101		CEAT2R2M50
	C 102		CKSRYB103K50
	C 103		CKSRYB104K50
	C 104,107		CKSRYB102K50
	C 105		CKSRYB471K50
	C 106		CKSRYB473K50
	C 108		CEAT102M6R3
	C 109		CEAT222M10

E LED ASSY

MISCELLANEOUS

	D 701	LED (RED)	SLI-343U8RC(HJKL)
	D 702	LED (BLUE)	SLR343BC4T(JKLM)
	CN 702	4PJUMPER CONNECTOR	52151-0410